API Well Number: 43013522960000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3
AMENDED REPORT ☑

APPLICATION FOR PERMIT TO DRILL

1. WELL NAME and NUMBER Dart 15-10-3-2WH	
2. TYPE OF WORK DRILL NEW WELL ● REENTER P&A WELL ○ DEEPEN WELL ○	**3. FIELD OR WILDCAT** NORTH MYTON BENCH
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO	**5. UNIT or COMMUNITIZATION AGREEMENT NAME**
6. NAME OF OPERATOR NEWFIELD PRODUCTION COMPANY	**7. OPERATOR PHONE** 435 646-4825
8. ADDRESS OF OPERATOR Rt 3 Box 3630 , Myton, UT, 84052	**9. OPERATOR E-MAIL** mcrozier@newfield.com
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) Patented **11. MINERAL OWNERSHIP** FEDERAL ○ INDIAN ○ STATE ○ FEE ●	**12. SURFACE OWNERSHIP** FEDERAL ○ INDIAN ○ STATE ○ FEE ●
13. NAME OF SURFACE OWNER (if box 12 = 'fee') Dart Homestead Ranch, Inc.	**14. SURFACE OWNER PHONE (if box 12 = 'fee')** 435-722-7087
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') Route 2, Box 2044, Roosevelt, UT 84066	**16. SURFACE OWNER E-MAIL (if box 12 = 'fee')**
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') **18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS** YES ○ (Submit Commingling Application) NO ●	**19. SLANT** VERTICAL ○ DIRECTIONAL ○ HORIZONTAL ●

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	368 FSL 2311 FEL	SWSE	10	3.0 S	2.0 W	U
Top of Uppermost Producing Zone	660 FSL 1980 FEL	SWSE	10	3.0 S	2.0 W	U
At Total Depth	660 FNL 1980 FEL	NWNE	10	3.0 S	2.0 W	U

21. COUNTY DUCHESNE	**22. DISTANCE TO NEAREST LEASE LINE (Feet)** 368	**23. NUMBER OF ACRES IN DRILLING UNIT** 40
	25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 30	**26. PROPOSED DEPTH** MD: 13297 TVD: 9125
27. ELEVATION - GROUND LEVEL 5345	**28. BOND NUMBER** B001834	**29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE** 437478

Hole, Casing, and Cement Information

String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
COND	24	20	0 - 60	0.0	Unknown	0.0	Class G	57	1.17	15.8
SURF	17.5	13.375	0 - 1500	54.5	J-55 ST&C	8.4	Varocem	120	3.33	11.0
							Varocem	420	1.9	13.0
I1	12.25	9.625	0 - 8405	40.0	N-80 Buttress	10.5	Halliburton Light , Type Unknown	678	3.53	11.0
							50/50 Poz	492	1.29	14.0
PROD	8.75	5.5	0 - 13297	20.0	P-110 Other	14.5	50/50 Poz	1327	1.29	14.0

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

☑ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	☑ COMPLETE DRILLING PLAN
☑ AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	☐ FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
☑ DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	☑ TOPOGRAPHICAL MAP

NAME Don Hamilton	**TITLE** Permitting Agent	**PHONE** 435 719-2018
SIGNATURE	**DATE** 07/12/2013	**EMAIL** starpoint@etv.net

API NUMBER ASSIGNED 43013522960000	**APPROVAL** Permit Manager

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RECEIVED: October 22, 2013

Newfield Production Company
15-10-3-2WH
Surface Hole Location: 368' FSL, 2311' FEL, Section 10, T3S, R2W
Bottom Hole Location: 660' FNL, 1980' FEL, Section 10, T3S, R2W
Duchesne County, UT

Drilling Program

1. Formation Tops

Uinta	surface
Green River	3,706'
Garden Gulch member	6,644'
Uteland Butte member	8,832'
Lateral TD	9,125' TVD / 13,297' MD

2. Depth to Oil, Gas, Water, or Minerals

Base of moderately saline	1,379'		(water)
Green River	6,644'	- 8,832'	(oil)
Uteland Butte member	8,832'	- 9,125'	(oil)

3. Pressure Control

Section	BOP Description
Surface	12-1/4" Diverter
Intermediate	The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc for a 5M system.
Prod/Prod Liner	The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc for a 5M system. A 5M BOP system will consist of 2 ram preventers (double or two singles) and an annular preventer (see attached diagram). A choke manifold rated to at least 5,000 psi will be used

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4. Casing

Description	Interval		Weight (ppf)	Grade	Coup	Pore Press @ Shoe	MW @ Shoe	Frac Grad @ Shoe	Safety Factors		
	Top	Bottom (TVD/MD)							Burst	Collapse	Tension
Conductor	0'	60'	--	--	Weld	--	--	--	--	--	--
20									--	--	--
Surface	0'	1,500'	54.5	J-55	STC	8.33	8.4	14	2,730	1,130	514,000
13 3/8									2.68	2.24	6.29
Intermediate	0'	8,381'	40	N-80	BTC	10	10.5	15	5,750	3,090	916,000
9 5/8		8,405'							1.09	1.35	2.73
Production	0'	9,125'	20	P-110	BTC	14	14.5	16	12,360	11,080	641,000
5 1/2		13,297'							2.16	1.86	2.41

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Assumptions:

Surface casing MASP = (frac gradient + 1.0 ppg) - (gas gradient)
Intermediate casing MASP = (reservoir pressure) - (gas gradient)
Production casing MASP = (reservoir pressure) - (gas gradient)
Intermediate collapse calculations assume 50% evacuated
Maximum intermediate csg collapse load assumes loss of mud to a fluid level of 4,191'
Intermediate csg run from surface to 8,381' and will not experience full evacuation
Production csg run from surface to TD will isolate intermediate csg from production loads
Production csg withstands burst and collapse loads for anticipated production conditions
Surface & production collapse calcs assume fully evacuated casing w/ a gas gradient
All tension calculations assume air weight of casing
Gas gradient = 0.1 psi/ft

All casing shall be new.
All casing strings shall have a minimum of 1 centralizer on each of the bottom 3 joints.

5. Cement

Job	Hole Size	Fill	Slurry Description	ft^3 / sacks	OH excess	Weight (ppg)	Yield (ft^3/sk)
Conductor	24	60'	Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake	66 / 57	15%	15.8	1.17
Surface Lead	17 1/2	500'	Varicem (Type III) + .125 lbs/sk Cello Flakes	399 / 120	15%	11.0	3.33
Surface Tail	17 1/2	1,000'	Varicem (Type III) + .125 lbs/sk Cello Flakes	799 / 420	15%	13.0	1.9
Intermediate Lead	12 1/4	6,644'	HLC Premium - 35% Poz/65% Glass G + 10% bentonite	2393 / 678	15%	11.0	3.53
Intermediate Tail	12 1/4	1,761'	50/50 Poz/Class G + 1% bentonite	634 / 492	15%	14.0	1.29
Production Lead	8 3/4	0'	HLC Premium - 35% Poz/65% Glass G + 10% bentonite	0 / 0	15%	11.0	3.53
Production Tail	8 3/4	5,892'	50/50 Poz/Class G + 1% bentonite	1712 / 1327	15%	14.0	1.29

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The surface casing will be cemented to surface. In the event that cement does not reach surface during the primary cement job, a remedial job will be performed.

Actual cement volumes for the intermediate casing string will be calculated from an open hole caliper log, plus 15% excess.

The 5.5" production string will be run from surface to TD and cemented to setback. The cement slurries will be adjusted for hole conditions and blend test results. The lateral will be cemented past the setback.

This well will not be perforated or produced outside the legal setbacks

6. Type and Characteristics of Proposed Circulating Medium

Interval	Description
Surface - 1,500'	An air and/or fresh water system will be utilized. If an air rig is used, the blooie line discharge may be less than 100' from the wellbore in order to minimize location size. The blooie line is not equipped with an automatic igniter. The air compressor may be located less than 100' from the well bore due to the low possibility of combustion with the air/dust mixture. Water will be on location to be used as kill fluid, if necessary.

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1,500' - 8,405' A water based mud: Hole stability may be improved with additions of KCl or a similar inhibitive substance. In order to control formation pressure the system will be weighted with additions of bentonite, and if conditions warrant, with barite.

Anticipated maximum mud weight is 10.5 ppg.

8,405' - TD One of two possible mud systems may be used depending on offset well performance on ongoing wells: A water based mud: Hole stability may be improved with additions of KCl or a similar inhibitive substance. In order to control formation pressure the system will be weighted with additions of bentonite, and if conditions warrant, with barite.

-or-

A diesel based OBM system: with an oil to water ratio between 70/30 and 80/20. Emulsifiers and wetting agents will be used to maintain adequate mud properties. A water phase salinity will be maintained in the range of 25% using CaCl (Calcium Chloride). All cuttings will be dried and centrifuged so that they can be easily transferred to a lined cuttings pit with little to no free fluid on them. The cuttings will be mixed with fly ash prior to transportation to a location on Newfield owned surface. Once on Newfield owned surface, the cuttings will be treated with the previously approved FIRMUS process and used as a construction material on future location and/or roads on Newfield owned surface. The cuttings may also be transported to a state approved disposal facility.

Anticipated maximum mud weight is 14.5 ppg.

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7. Logging, Coring, and Testing

Logging: A dual induction, gamma ray, and caliper log will be run from KOP to the base of the surface casing. A compensated neutron/formation density log will be run from TD to the top of the Garden Gulch formation. A cement bond log will be run from KOP to the cement top behind the production casing and or intermediate casing.

Cores: As deemed necessary.

DST: There are no DST's planned for this well.

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8. Anticipated Abnormal Pressure or Temperature

Maximum anticipated bottomhole pressure will be approximately equal to total depth (feet) multiplied by a 0.73 psi/ft gradient.

9,125' x 0.73 psi/ft = 6643 psi

No abnormal temperature is expected. No H_2S is expected.

9. Other Aspects

The lateral of this well will target the Uteland Butte member of the Green River formation
After setting 9-5/8" casing, an 8-3/4" vertical hole will be drilled to a kick off point of 8,405'
Directional tools will then be used to build to 87.17 degrees inclination.
The lateral will be drilled to the bottomhole location shown on the plat. A 5-1/2" longstring will be run from surface to TD and cemented in place.

Newfield requests the following variances from Onshore Order #2:

- Variance from Onshoer Order #2, III.E.1
  Refer to Newfield Production Company Standard Operating Practices "Ute Tribal Green River Development Program" paragraph 9.0

If oil based mud (OBM) is used and If Newfield owns the surface rights on the same drilling site at a location where construction is desired, the cuttings may be used for construction by a Firmus® process at that location. Otherwise, after the cuttings have been made safe for transport as described in paragraph 6, they will be transported to another location on which Newfield owns surface rights and there mixed, as part of a Firmus® process, with at least one additional chemical that will convert them to a temporarily uncured cementitious mixture that will be placed and shaped into a temporary desired final structure that will spontaneously harden within seven days after placement to form the desired structure. Samples of the temporary desired final structure may be taken for testing as described below (after the samples have hardened), or samples of the starting pretreated cuttings and mud will be taken during the construction and later mixed in a laboratory, molded, and cured to simulate the final structure as well as reasonably possible. Either these laboratory-made simulations of the final structure or samples of the temporary mixture itself after hardening, will be mechanically tested directly to determine their unconfined compressive strength and their hydraulic conductivity. Leachates of the mechanically tested structures themselves or of finer particles made by crushing and size-grading of the mechanically tested structures themselves to a specified particle size range will be analyzed, according to specified methods, for their contents of arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, zinc, benzene, total petroleum hydrocarbons (TPH), and chlorides, and the pH of these leachates will also be measured. The results of all these tests will be reported by Newfield to UDOGM at intervals as requested, along with the latitude and longitude (or other comparable location data) of the site of the useful constructions built.

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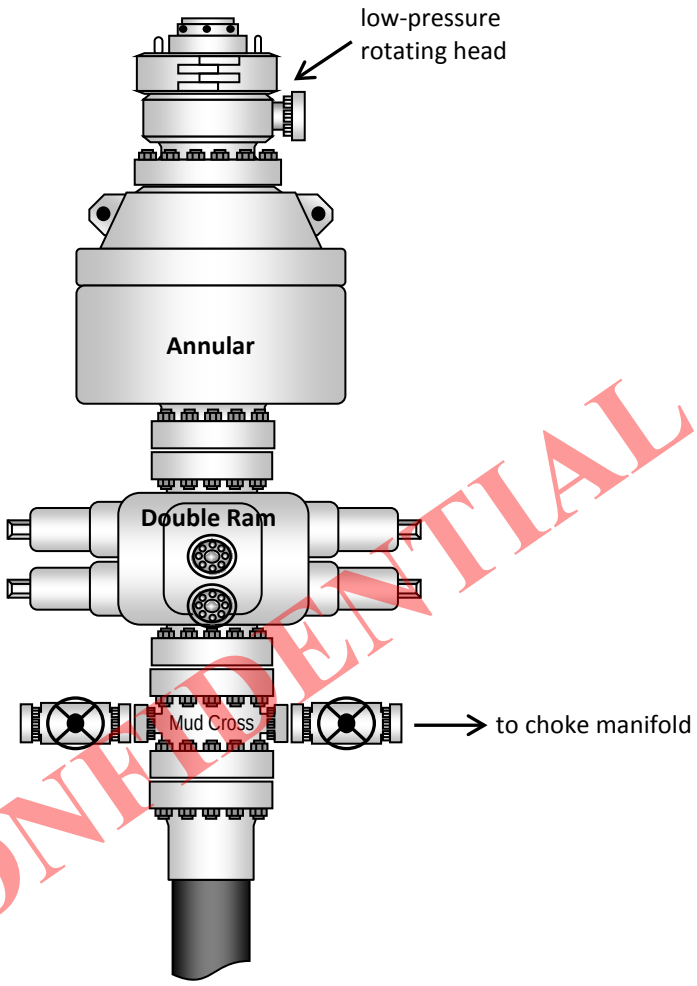
RECEIVED: October 15, 2013

Typical 5M BOP stack configuration



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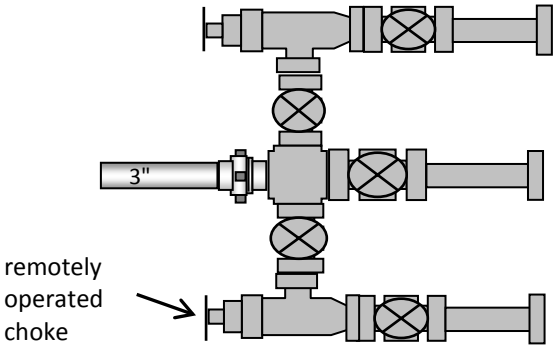
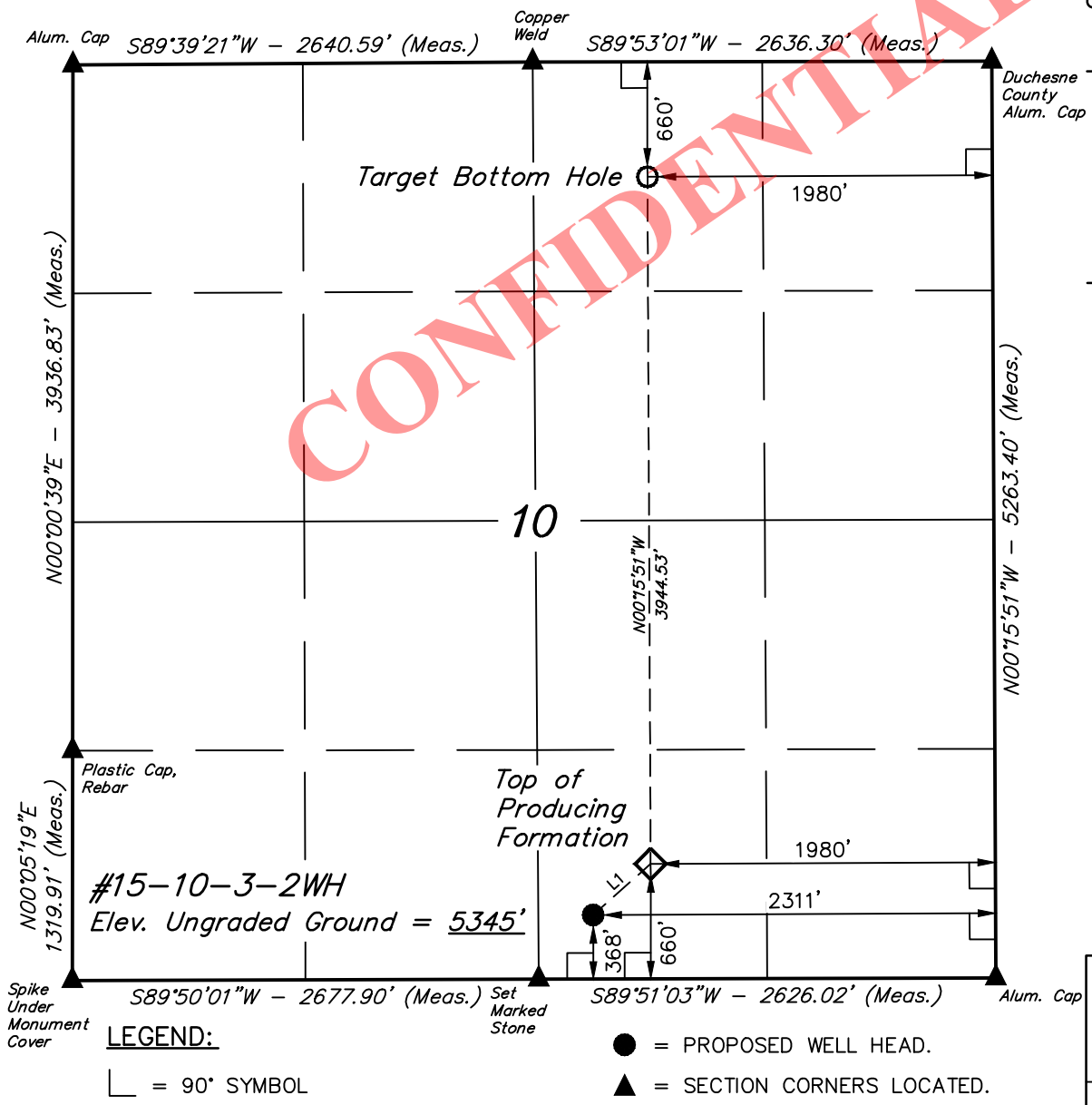
Typical 5M choke manifold configuration



RECEIVED: October 15, 2013

API Well Number: 43013522960000

T3S, R2W, U.S.B.&M.



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LEGEND:

└ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

NEWFIELD EXPLORATION COMPANY

Well location, #15-10-3-2WH, located as shown in the SW 1/4 SE 1/4 of Section 10, T3S, R2W, U.S.B.&M., Duchesne County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION LOCATED AT THE SOUTHEAST CORNER OF SECTION 20, T3S, R2W, U.S.B.&M. TAKEN FROM THE MYTON, QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5148 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N48°23'23"E	441.29'

N

1000' 500' 0' 1000'

SCALE

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR REGISTRATION NO. 161319 STATE OF UTAH

REVISED: 05-02-13

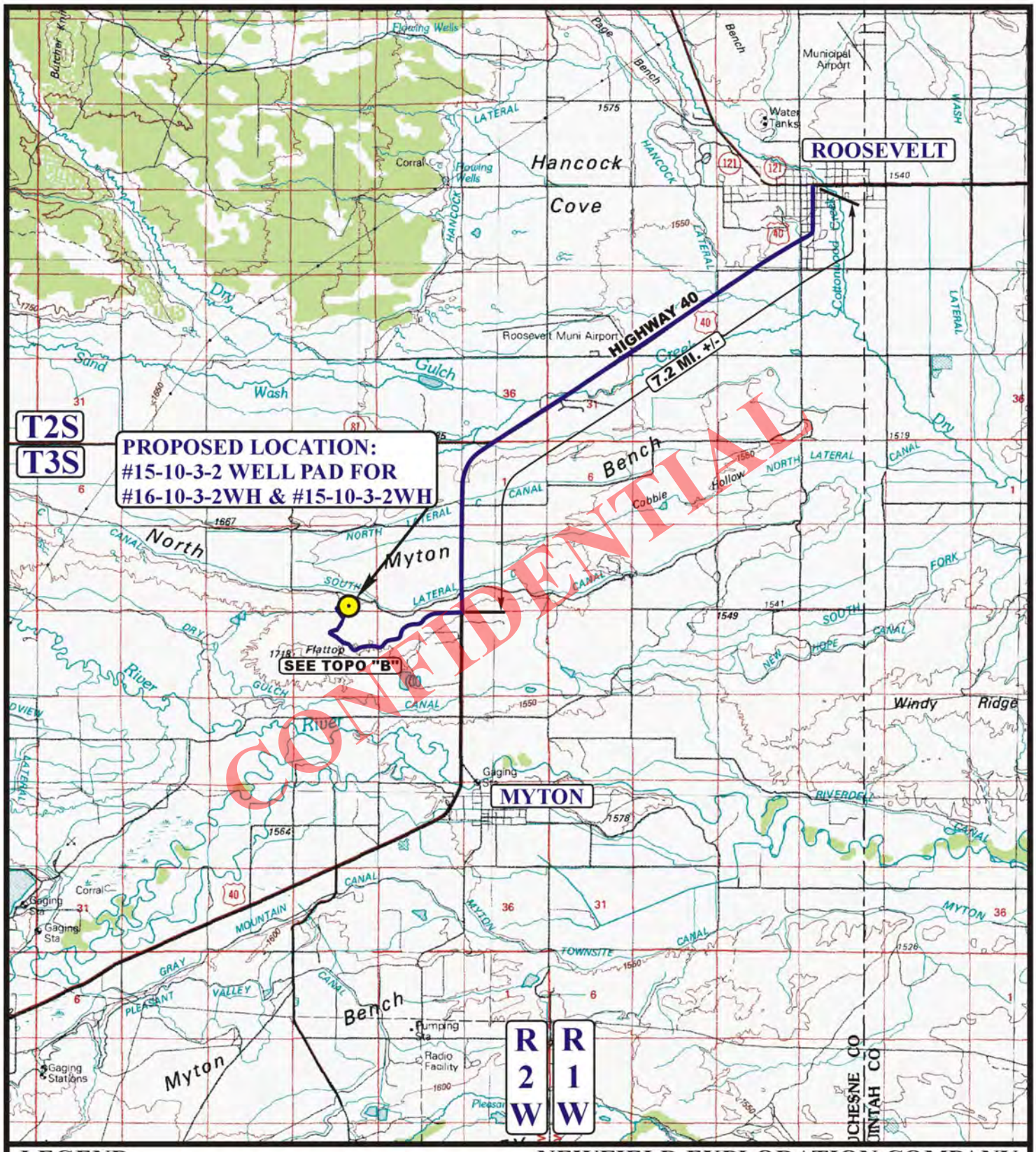
NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (TOP OF PRODUCING FORMATION)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°14'31.86" (40.242183)	LATITUDE = 40°13'52.89" (40.231358)	LATITUDE = 40°13'49.99" (40.230553)
LONGITUDE = 110°05'36.30" (110.093417)	LONGITUDE = 110°05'36.08" (110.093356)	LONGITUDE = 110°05'40.34" (110.094539)
NAD 27 (TARGET BOTTOM HOLE)	**NAD 27 (TOP OF PRODUCING FORMATION)**	**NAD 27 (SURFACE LOCATION)**
LATITUDE = 40°14'32.00" (40.242222)	LATITUDE = 40°13'53.03" (40.231397)	LATITUDE = 40°13'50.14" (40.230594)
LONGITUDE = 110°05'33.76" (110.092711)	LONGITUDE = 110°05'33.54" (110.092650)	LONGITUDE = 110°05'37.80" (110.093833)

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST – VERNAL, UTAH 84078
(435) 789-1017

SCALE	DATE SURVEYED:	DATE DRAWN:
1" = 1000'	11-13-12	11-19-12
PARTY: M.A. A.H. S.F.	REFERENCES: G.L.O. PLAT	
WEATHER: COLD	FILE: NEWFIELD EXPLORATION COMPANY	

RECEIVED: July 12, 2013

API Well Number: 43013522960000



LEGEND:

PROPOSED LOCATION

N

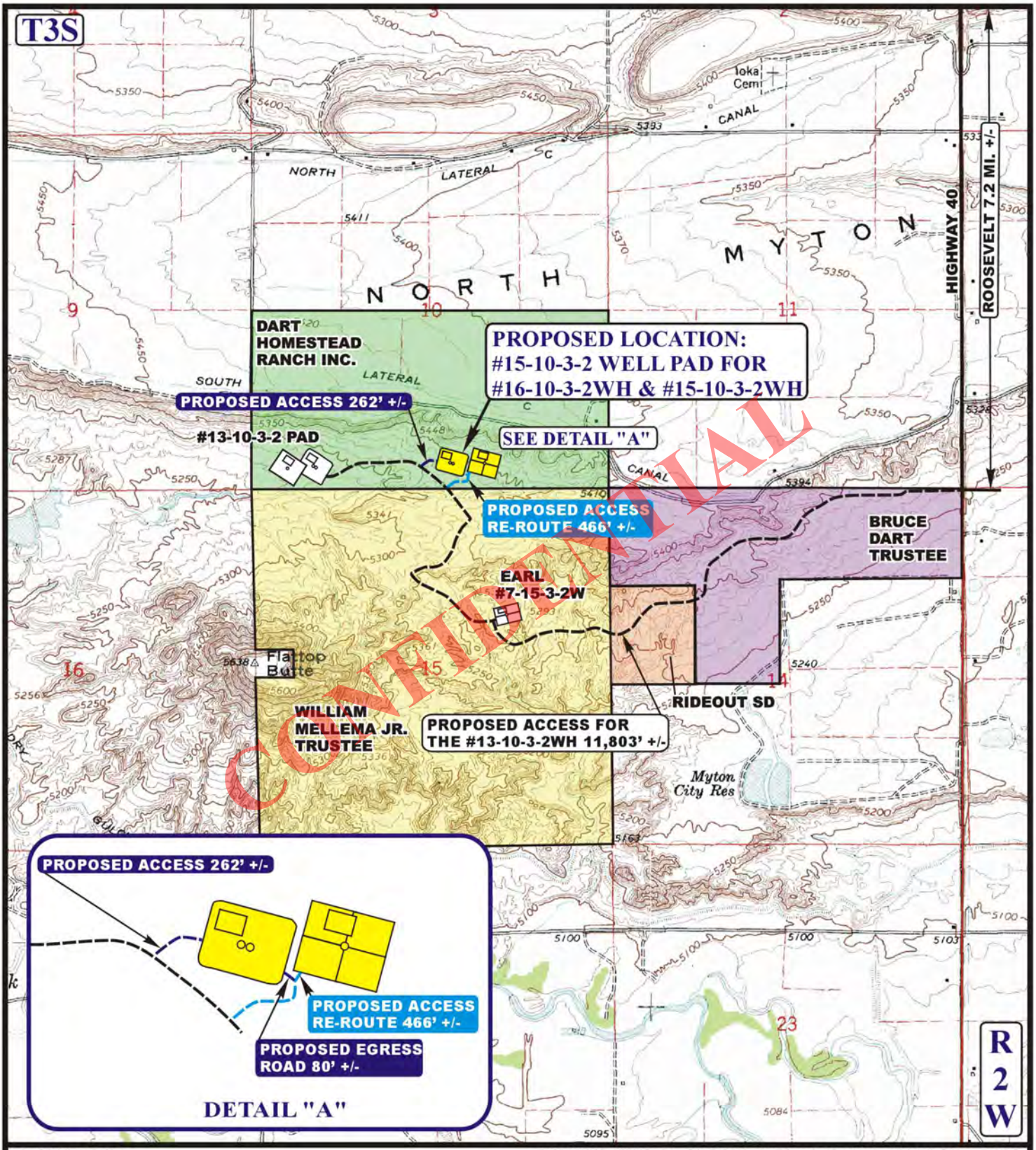
NEWFIELD EXPLORATION COMPANY

#15-10-3-2 WELL PAD FOR
#16-10-3-2WH & #15-10-3-2WH
SECTION 10, T3S, R2W, U.S.B.&M.
SW 1/4 SE 1/4

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

ACCESS ROAD MAP	11 MONTH	15 DAY	12 YEAR	A TOPO
SCALE: 1:100,000	DRAWN BY: C.I.	REV: 07-10-13 S.O.		

API Well Number: 43013522960000



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LEGEND:

EXISTING ROAD

PROPOSED ACCESS ROAD

N

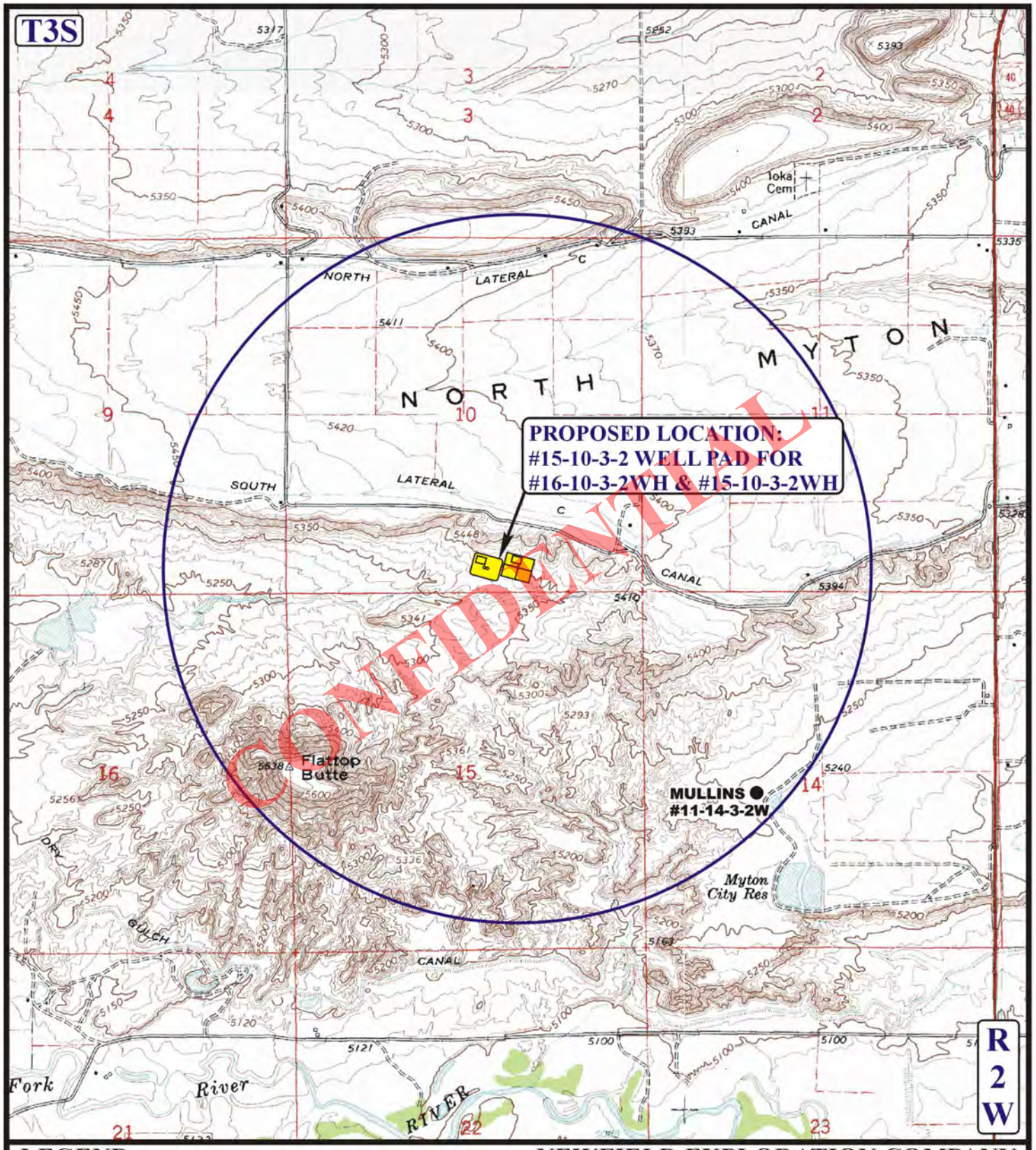
NEWFIELD EXPLORATION COMPANY

#15-10-3-2 WELL PAD FOR
#16-10-3-2WH & #15-10-3-2WH
SECTION 10, T3S, R2W, U.S.B.&M.
SW 1/4 SE 1/4

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

ACCESS ROAD MAP	11 MONTH	15 DAY	12 YEAR	B TOPO
SCALE: 1" = 2000'	DRAWN BY: C.I.	REV: 07-10-13 S.O.		

API Well Number: 43013522960000



LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

N

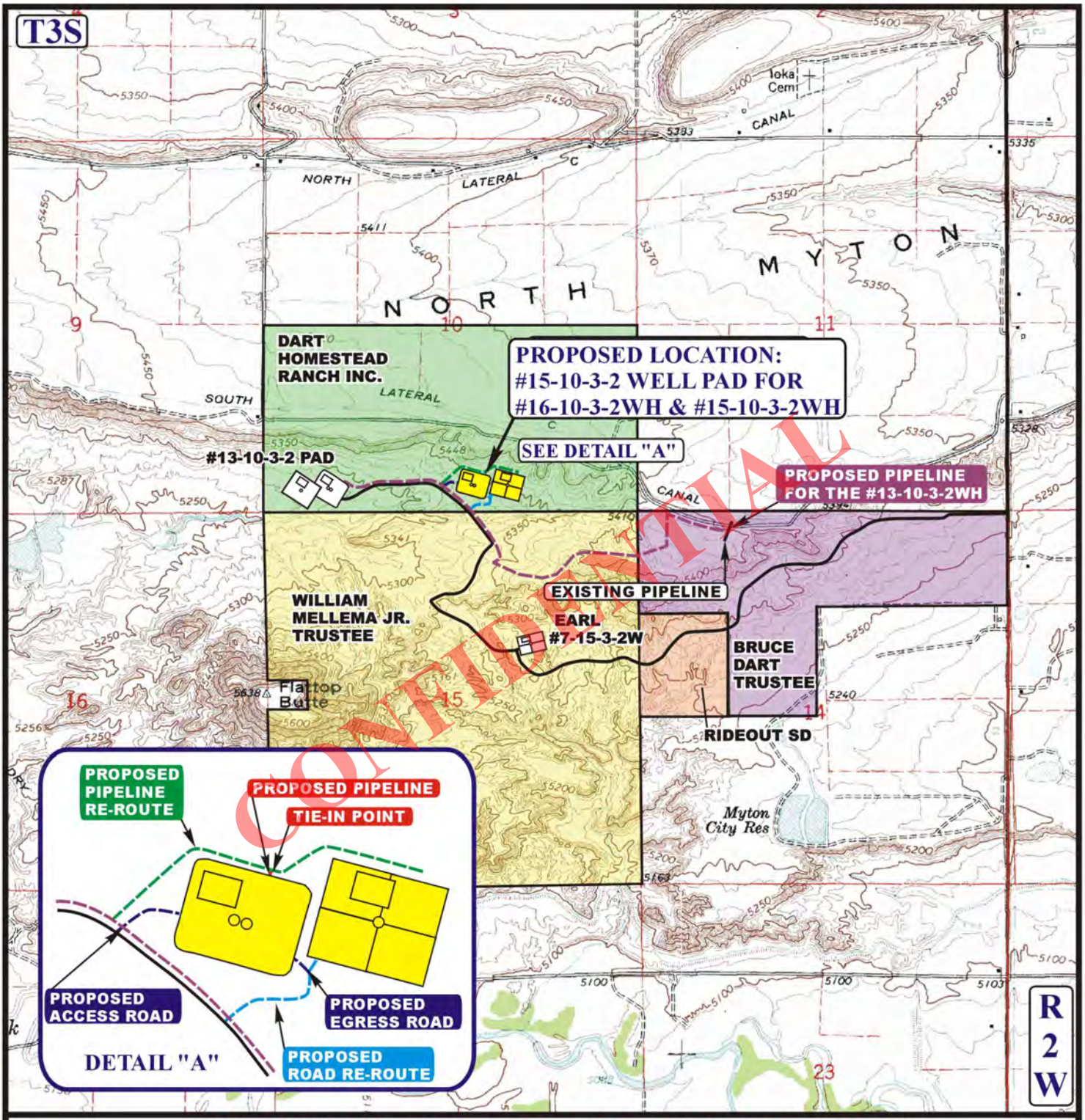
NEWFIELD EXPLORATION COMPANY

#15-10-3-2 WELL PAD FOR
#16-10-3-2WH & #15-10-3-2WH
SECTION 10, T3S, R2W, U.S.B.&M.
SW 1/4 SE 1/4

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	11 MONTH	15 DAY	12 YEAR	C TOPO
SCALE: 1" = 2000'	DRAWN BY: C.I.	REV: 07-10-13 S.O.		

API Well Number: 43013522960000



APPROXIMATE TOTAL PIPELINE DISTANCE = 25' +/-

APPROXIMATE TOTAL PIPELINE RE-ROUTE DISTANCE = 1,353' +/-

LEGEND:

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE
- PROPOSED PIPELINE (SERVICING OTHER WELLS)
- PROPOSED PIPELINE RE-ROUTE

N

NEWFIELD EXPLORATION COMPANY

#15-10-3-2 WELL PAD FOR
#16-10-3-2WH & #15-10-3-2WH
SECTION 10, T3S, R2W, U.S.B.&M.
SW 1/4 SE 1/4

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	11 MONTH	15 DAY	12 YEAR	D TOPO
SCALE: 1" = 2000'	DRAWN BY: C.I.	REV: 07-10-13 S.O.		

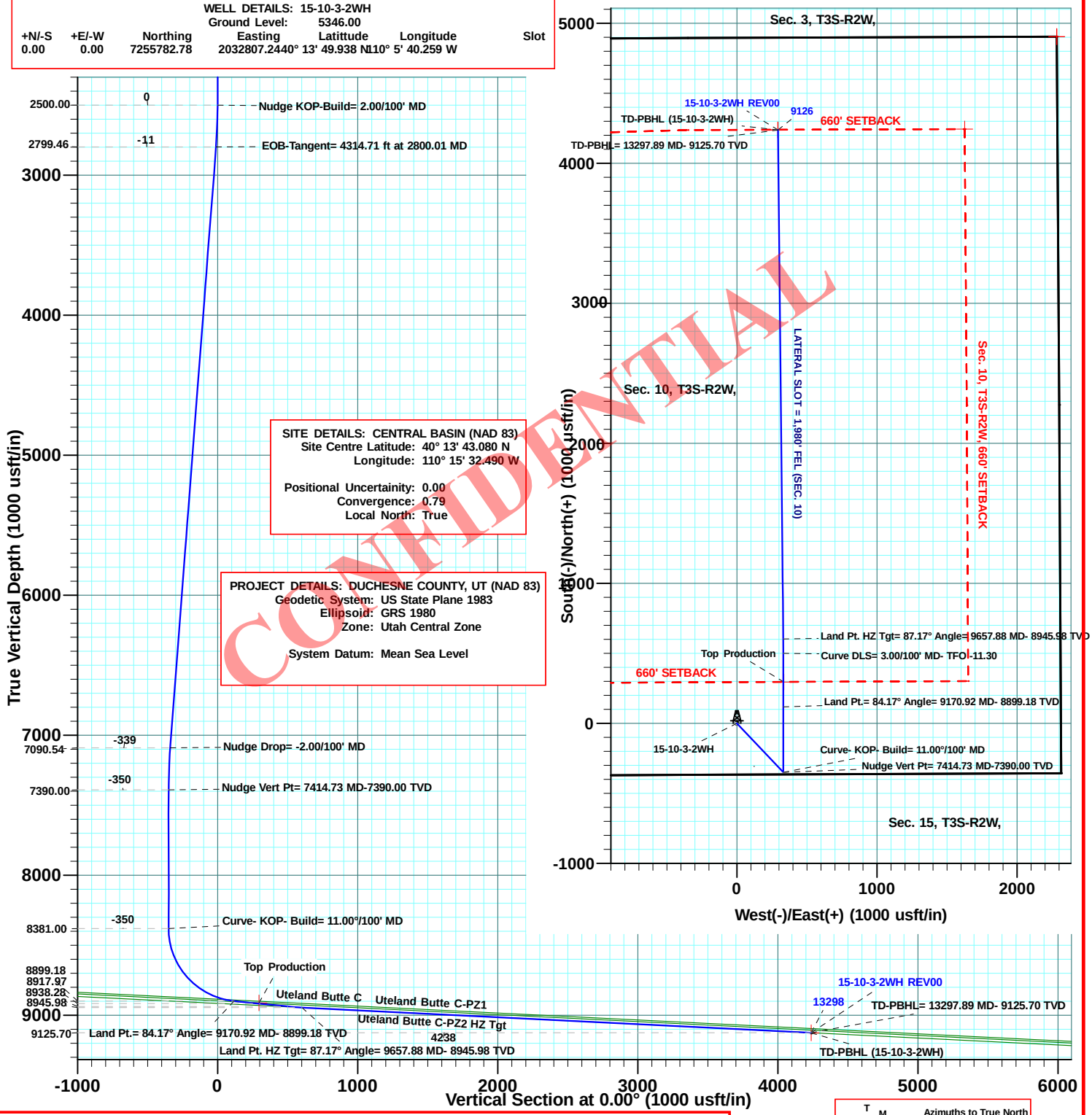
LEAM Drilling Systems, Inc.
FOR
NEWFIELD EXPLORATION ROCKY MOUNTAINS
WELL: 15-10-3-2WH (PLAN: REV00)
DUCHESNE COUNTY, UTAH
RIG NAME: RIG (KB= 18')
MAY 23, 2013 -- WELL PLAN PLOT

LEAM Drilling Systems LLC

NEWFIELD ROCKY MOUNTAINS

WELL DETAILS: 15-10-3-2WH
Ground Level: 5346.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	7255782.78	2032807.24	40° 13' 49.938 N	110° 5' 40.259 W	



SITE DETAILS: CENTRAL BASIN (NAD 83)
Site Centre Latitude: 40° 13' 43.080 N
Longitude: 110° 15' 32.490 W

Positional Uncertainity: 0.00
Convergence: 0.79
Local North: True

PROJECT DETAILS: DUCHESNE COUNTY, UT (NAD 83)
Geodetic System: US State Plane 1983
Ellipsoid: GRS 1980
Zone: Utah Central Zone

System Datum: Mean Sea Level

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SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	
2800.01	6.00	136.51	2799.46	-11.39	10.80	2.00	136.51	-11.39	
7114.72	6.00	136.51	7090.54	-338.61	321.20	0.00	0.00	-338.61	
7414.73	0.00	0.00	7390.00	-350.00	332.00	2.00	180.00	-350.00	
8405.73	0.00	0.00	8381.00	-350.00	332.00	0.00	0.00	-350.00	
9170.92	84.17	0.00	8899.18	117.96	332.00	11.00	0.00	117.96	
9355.92	84.17	0.00	8917.97	302.01	332.00	0.00	0.00	302.01	
9555.92	84.17	0.00	8938.28	500.97	332.00	0.00	0.00	500.97	
9657.88	87.17	359.40	8945.98	602.64	331.47	3.00	-11.30	602.64	
13297.89	87.17	359.40	9125.70	4238.00	293.40	0.00	0.00	4238.00	

Azimuths to True North
Magnetic North: 11.11°

Magnetic Field
Strength: 52176.4snT
Dip Angle: 65.89°
Date: 5/23/2013
Model: IGRF2010

Plan: 15-10-3-2WH REV00 (15-10-3-2WH/15-10-3-2WH)
Created By: Lynn Hulin Date: 16:54, May 23 2013

Checked: _____ Date: _____
Reviewed: _____ Date: _____
Approved: _____ Date: _____

RECEIVED: September 25, 2013

LEAM Drilling Systems LLC

Planning Report

LEAM Drilling Systems LLC

Database:	EDM 5000.1 Lynn Db	**Local Co-ordinate Reference:**	Well 15-10-3-2WH
Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	**TVD Reference:**	WELL(5346'+18'= 5,364' MSL) @ 5364.00usft (RIG (KB= 18'))
Project:	DUCHESNE COUNTY, UT (NAD 83)	**MD Reference:**	WELL(5346'+18'= 5,364' MSL) @ 5364.00usft (RIG (KB= 18'))
Site:	CENTRAL BASIN (NAD 83)	**North Reference:**	True
Well:	15-10-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	15-10-3-2WH		
Design:	15-10-3-2WH REV00		

Project DUCHESNE COUNTY, UT (NAD 83),

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site CENTRAL BASIN (NAD 83)

Site Position:		**Northing:**	7,254,409.48 usft	**Latitude:**	40° 13' 43.080 N
From:	Lat/Long	**Easting:**	1,986,891.62 usft	**Longitude:**	110° 15' 32.490 W
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.79 °

Well 15-10-3-2WH, Sec. 10, T3S-R2W,

Well Position	**+N/-S**	736.14 usft	**Northing:**	7,255,782.78 usft	**Latitude:**	40° 13' 49.938 N
	+E/-W	45,930.26 usft	**Easting:**	2,032,807.24 usft	**Longitude:**	110° 5' 40.259 W
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	5,364.00 usft	**Ground Level:**	5,346.00 usft

Wellbore 15-10-3-2WH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/23/2013	11.11	65.89	52,176

Design 15-10-3-2WH REV00

Audit Notes:

Version:	REV00	**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	0.00

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,800.01	6.00	136.51	2,799.46	-11.39	10.80	2.00	2.00	0.00	136.51	
7,114.72	6.00	136.51	7,090.54	-338.61	321.20	0.00	0.00	0.00	0.00	
7,414.73	0.00	0.00	7,390.00	-350.00	332.00	2.00	-2.00	0.00	180.00	
8,405.73	0.00	0.00	8,381.00	-350.00	332.00	0.00	0.00	0.00	0.00	
9,170.92	84.17	0.00	8,899.18	117.96	332.00	11.00	11.00	0.00	0.00	
9,355.92	84.17	0.00	8,917.97	302.01	332.00	0.00	0.00	0.00	0.00	
9,555.92	84.17	0.00	8,938.28	500.97	332.00	0.00	0.00	0.00	0.00	
9,657.88	87.17	359.40	8,945.98	602.64	331.47	3.00	2.94	-0.59	-11.30	
13,297.89	87.17	359.40	9,125.70	4,238.00	293.40	0.00	0.00	0.00	0.00	TD-PBHL (15-10-3-

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LEAM Drilling Systems LLC

Planning Report

LEAM Drilling Systems LLC

Database:	EDM 5000.1 Lynn Db	**Local Co-ordinate Reference:**	Well 15-10-3-2WH
Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	**TVD Reference:**	WELL(5346'+18'= 5,364' MSL) @ 5364.00usft (RIG (KB= 18'))
Project:	DUCHESNE COUNTY, UT (NAD 83)	**MD Reference:**	WELL(5346'+18'= 5,364' MSL) @ 5364.00usft (RIG (KB= 18'))
Site:	CENTRAL BASIN (NAD 83)	**North Reference:**	True
Well:	15-10-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	15-10-3-2WH		
Design:	15-10-3-2WH REV00		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
Nudge KOP-Build= 2.00/100' MD									
2,600.00	2.00	136.51	2,599.98	-1.27	1.20	-1.27	2.00	2.00	0.00
2,700.00	4.00	136.51	2,699.84	-5.06	4.80	-5.06	2.00	2.00	0.00
2,800.01	6.00	136.51	2,799.46	-11.39	10.80	-11.39	2.00	2.00	0.00
EOB-Tangent= 4314.71 ft at 2800.01 MD									
2,900.00	6.00	136.51	2,898.90	-18.97	17.99	-18.97	0.00	0.00	0.00
3,000.00	6.00	136.51	2,998.36	-26.55	25.19	-26.55	0.00	0.00	0.00
3,100.00	6.00	136.51	3,097.81	-34.14	32.38	-34.14	0.00	0.00	0.00
3,200.00	6.00	136.51	3,197.26	-41.72	39.58	-41.72	0.00	0.00	0.00
3,300.00	6.00	136.51	3,296.71	-49.31	46.77	-49.31	0.00	0.00	0.00
3,400.00	6.00	136.51	3,396.16	-56.89	53.96	-56.89	0.00	0.00	0.00
3,500.00	6.00	136.51	3,495.62	-64.47	61.16	-64.47	0.00	0.00	0.00
3,600.00	6.00	136.51	3,595.07	-72.06	68.35	-72.06	0.00	0.00	0.00
3,700.00	6.00	136.51	3,694.52	-79.64	75.55	-79.64	0.00	0.00	0.00
3,800.00	6.00	136.51	3,793.97	-87.23	82.74	-87.23	0.00	0.00	0.00
3,900.00	6.00	136.51	3,893.43	-94.81	89.93	-94.81	0.00	0.00	0.00
4,000.00	6.00	136.51	3,992.88	-102.39	97.13	-102.39	0.00	0.00	0.00
4,100.00	6.00	136.51	4,092.33	-109.98	104.32	-109.98	0.00	0.00	0.00
4,200.00	6.00	136.51	4,191.78	-117.56	111.52	-117.56	0.00	0.00	0.00
4,300.00	6.00	136.51	4,291.23	-125.15	118.71	-125.15	0.00	0.00	0.00
4,400.00	6.00	136.51	4,390.69	-132.73	125.90	-132.73	0.00	0.00	0.00
4,500.00	6.00	136.51	4,490.14	-140.31	133.10	-140.31	0.00	0.00	0.00
4,600.00	6.00	136.51	4,589.59	-147.90	140.29	-147.90	0.00	0.00	0.00
4,700.00	6.00	136.51	4,689.04	-155.48	147.49	-155.48	0.00	0.00	0.00
4,800.00	6.00	136.51	4,788.50	-163.07	154.68	-163.07	0.00	0.00	0.00
4,900.00	6.00	136.51	4,887.95	-170.65	161.87	-170.65	0.00	0.00	0.00

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Planning Report

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Database:	EDM 5000.1 Lynn Db	**Local Co-ordinate Reference:**	Well 15-10-3-2WH
Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	**TVD Reference:**	WELL(5346'+18'= 5,364' MSL) @ 5364.00usft (RIG (KB= 18'))
Project:	DUCHESNE COUNTY, UT (NAD 83)	**MD Reference:**	WELL(5346'+18'= 5,364' MSL) @ 5364.00usft (RIG (KB= 18'))
Site:	CENTRAL BASIN (NAD 83)	**North Reference:**	True
Well:	15-10-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	15-10-3-2WH		
Design:	15-10-3-2WH REV00		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,000.00	6.00	136.51	4,987.40	-178.23	169.07	-178.23	0.00	0.00	0.00
5,100.00	6.00	136.51	5,086.85	-185.82	176.26	-185.82	0.00	0.00	0.00
5,200.00	6.00	136.51	5,186.30	-193.40	183.45	-193.40	0.00	0.00	0.00
5,300.00	6.00	136.51	5,285.76	-200.99	190.65	-200.99	0.00	0.00	0.00
5,400.00	6.00	136.51	5,385.21	-208.57	197.84	-208.57	0.00	0.00	0.00
5,500.00	6.00	136.51	5,484.66	-216.15	205.04	-216.15	0.00	0.00	0.00
5,600.00	6.00	136.51	5,584.11	-223.74	212.23	-223.74	0.00	0.00	0.00
5,700.00	6.00	136.51	5,683.56	-231.32	219.42	-231.32	0.00	0.00	0.00
5,800.00	6.00	136.51	5,783.02	-238.91	226.62	-238.91	0.00	0.00	0.00
5,900.00	6.00	136.51	5,882.47	-246.49	233.81	-246.49	0.00	0.00	0.00
6,000.00	6.00	136.51	5,981.92	-254.07	241.01	-254.07	0.00	0.00	0.00
6,100.00	6.00	136.51	6,081.37	-261.66	248.20	-261.66	0.00	0.00	0.00
6,200.00	6.00	136.51	6,180.83	-269.24	255.39	-269.24	0.00	0.00	0.00
6,300.00	6.00	136.51	6,280.28	-276.82	262.59	-276.82	0.00	0.00	0.00
6,400.00	6.00	136.51	6,379.73	-284.41	269.78	-284.41	0.00	0.00	0.00
6,500.00	6.00	136.51	6,479.18	-291.99	276.98	-291.99	0.00	0.00	0.00
6,600.00	6.00	136.51	6,578.63	-299.58	284.17	-299.58	0.00	0.00	0.00
6,700.00	6.00	136.51	6,678.09	-307.16	291.36	-307.16	0.00	0.00	0.00
6,800.00	6.00	136.51	6,777.54	-314.74	298.56	-314.74	0.00	0.00	0.00
6,900.00	6.00	136.51	6,876.99	-322.33	305.75	-322.33	0.00	0.00	0.00
7,000.00	6.00	136.51	6,976.44	-329.91	312.95	-329.91	0.00	0.00	0.00
7,100.00	6.00	136.51	7,075.89	-337.50	320.14	-337.50	0.00	0.00	0.00
7,114.72	6.00	136.51	7,090.54	-338.61	321.20	-338.61	0.00	0.00	0.00
Nudge Drop= -2.00/100' MD									
7,200.00	4.29	136.51	7,175.47	-344.16	326.46	-344.16	2.00	-2.00	0.00
7,300.00	2.29	136.51	7,275.30	-348.33	330.42	-348.33	2.00	-2.00	0.00
7,400.00	0.29	136.51	7,375.27	-349.97	331.97	-349.97	2.00	-2.00	0.00
7,414.73	0.00	0.00	7,390.00	-350.00	332.00	-350.00	2.00	-2.00	0.00
Nudge Vert Pt= 7414.73 MD-7390.00 TVD									
7,500.00	0.00	0.00	7,475.27	-350.00	332.00	-350.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,575.27	-350.00	332.00	-350.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,675.27	-350.00	332.00	-350.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,775.27	-350.00	332.00	-350.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,875.27	-350.00	332.00	-350.00	0.00	0.00	0.00
8,000.00	0.00	0.00	7,975.27	-350.00	332.00	-350.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,075.27	-350.00	332.00	-350.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,175.27	-350.00	332.00	-350.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,275.27	-350.00	332.00	-350.00	0.00	0.00	0.00
8,405.73	0.00	0.00	8,381.00	-350.00	332.00	-350.00	0.00	0.00	0.00
Curve- KOP- Build= 11.00°/100' MD									
8,450.00	4.87	0.00	8,425.21	-348.12	332.00	-348.12	11.00	11.00	0.00
8,500.00	10.37	0.00	8,474.75	-341.49	332.00	-341.49	11.00	11.00	0.00
8,550.00	15.87	0.00	8,523.43	-330.15	332.00	-330.15	11.00	11.00	0.00
8,600.00	21.37	0.00	8,570.79	-314.19	332.00	-314.19	11.00	11.00	0.00
8,650.00	26.87	0.00	8,616.41	-293.77	332.00	-293.77	11.00	11.00	0.00
8,700.00	32.37	0.00	8,659.86	-269.06	332.00	-269.06	11.00	11.00	0.00
8,750.00	37.87	0.00	8,700.74	-240.31	332.00	-240.31	11.00	11.00	0.00
8,800.00	43.37	0.00	8,738.68	-207.77	332.00	-207.77	11.00	11.00	0.00
8,850.00	48.87	0.00	8,773.33	-171.75	332.00	-171.75	11.00	11.00	0.00
8,900.00	54.37	0.00	8,804.36	-132.57	332.00	-132.57	11.00	11.00	0.00
8,950.00	59.87	0.00	8,831.49	-90.59	332.00	-90.59	11.00	11.00	0.00

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Wellbore:	15-10-3-2WH		
Design:	15-10-3-2WH REV00		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,000.00	65.37	0.00	8,854.48	-46.21	332.00	-46.21	11.00	11.00	0.00
9,050.00	70.87	0.00	8,873.10	0.17	332.00	0.17	11.00	11.00	0.00
9,100.00	76.37	0.00	8,887.20	48.12	332.00	48.12	11.00	11.00	0.00
9,106.49	77.08	0.00	8,888.69	54.44	332.00	54.44	11.00	11.00	0.00
Uteland Butte C									
9,150.00	81.87	0.00	8,896.64	97.20	332.00	97.20	11.00	11.00	0.00
9,170.92	84.17	0.00	8,899.18	117.96	332.00	117.96	11.00	11.00	0.00
Land Pt.= 84.17° Angle= 9170.92 MD- 8899.18 TVD									
9,200.00	84.17	0.00	8,902.13	146.90	332.00	146.90	0.00	0.00	0.00
9,259.75	84.17	0.00	8,908.20	206.33	332.00	206.33	0.00	0.00	0.00
Uteland Butte C-PZ1									
9,300.00	84.17	0.00	8,912.29	246.38	332.00	246.38	0.00	0.00	0.00
9,355.92	84.17	0.00	8,917.97	302.01	332.00	302.01	0.00	0.00	0.00
Tangent= 200 ft at 9355.92 MD									
9,400.00	84.17	0.00	8,922.45	345.86	332.00	345.86	0.00	0.00	0.00
9,500.00	84.17	0.00	8,932.60	445.34	332.00	445.34	0.00	0.00	0.00
9,555.92	84.17	0.00	8,938.28	500.97	332.00	500.97	0.00	0.00	0.00
Curve DLS= 3.00/100' MD- TFO -11.30									
9,600.00	85.47	359.74	8,942.27	544.87	331.90	544.87	3.00	2.94	-0.59
9,630.58	86.37	359.56	8,944.44	575.38	331.71	575.38	3.00	2.94	-0.59
Uteland Butte C-PZ2 HZ Tgt									
9,657.88	87.17	359.40	8,945.98	602.64	331.47	602.64	3.00	2.94	-0.59
Land Pt. HZ Tgt= 87.17° Angle= 9657.88 MD- 8945.98 TVD									
9,700.00	87.17	359.40	8,948.06	644.70	331.03	644.70	0.00	0.00	0.00
9,800.00	87.17	359.40	8,953.00	744.57	329.98	744.57	0.00	0.00	0.00
9,900.00	87.17	359.40	8,957.94	844.44	328.93	844.44	0.00	0.00	0.00
10,000.00	87.17	359.40	8,962.87	944.31	327.89	944.31	0.00	0.00	0.00
10,100.00	87.17	359.40	8,967.81	1,044.19	326.84	1,044.19	0.00	0.00	0.00
10,200.00	87.17	359.40	8,972.75	1,144.06	325.80	1,144.06	0.00	0.00	0.00
10,300.00	87.17	359.40	8,977.68	1,243.93	324.75	1,243.93	0.00	0.00	0.00
10,400.00	87.17	359.40	8,982.62	1,343.80	323.70	1,343.80	0.00	0.00	0.00
10,500.00	87.17	359.40	8,987.56	1,443.68	322.66	1,443.68	0.00	0.00	0.00
10,600.00	87.17	359.40	8,992.50	1,543.55	321.61	1,543.55	0.00	0.00	0.00
10,700.00	87.17	359.40	8,997.43	1,643.42	320.57	1,643.42	0.00	0.00	0.00
10,800.00	87.17	359.40	9,002.37	1,743.29	319.52	1,743.29	0.00	0.00	0.00
10,900.00	87.17	359.40	9,007.31	1,843.17	318.48	1,843.17	0.00	0.00	0.00
11,000.00	87.17	359.40	9,012.25	1,943.04	317.43	1,943.04	0.00	0.00	0.00
11,100.00	87.17	359.40	9,017.18	2,042.91	316.38	2,042.91	0.00	0.00	0.00
11,200.00	87.17	359.40	9,022.12	2,142.79	315.34	2,142.79	0.00	0.00	0.00
11,300.00	87.17	359.40	9,027.06	2,242.66	314.29	2,242.66	0.00	0.00	0.00
11,400.00	87.17	359.40	9,031.99	2,342.53	313.25	2,342.53	0.00	0.00	0.00
11,500.00	87.17	359.40	9,036.93	2,442.40	312.20	2,442.40	0.00	0.00	0.00
11,600.00	87.17	359.40	9,041.87	2,542.28	311.15	2,542.28	0.00	0.00	0.00
11,700.00	87.17	359.40	9,046.81	2,642.15	310.11	2,642.15	0.00	0.00	0.00
11,800.00	87.17	359.40	9,051.74	2,742.02	309.06	2,742.02	0.00	0.00	0.00
11,900.00	87.17	359.40	9,056.68	2,841.89	308.02	2,841.89	0.00	0.00	0.00
12,000.00	87.17	359.40	9,061.62	2,941.77	306.97	2,941.77	0.00	0.00	0.00
12,100.00	87.17	359.40	9,066.56	3,041.64	305.92	3,041.64	0.00	0.00	0.00
12,200.00	87.17	359.40	9,071.49	3,141.51	304.88	3,141.51	0.00	0.00	0.00
12,300.00	87.17	359.40	9,076.43	3,241.38	303.83	3,241.38	0.00	0.00	0.00
12,400.00	87.17	359.40	9,081.37	3,341.26	302.79	3,341.26	0.00	0.00	0.00

CONFIDENTIAL

RECEIVED: September 25, 2013

LEAM Drilling Systems LLC

Planning Report

LEAM Drilling Systems LLC

Database:	EDM 5000.1 Lynn Db	**Local Co-ordinate Reference:**	Well 15-10-3-2WH
Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	**TVD Reference:**	WELL(5346'+18'= 5,364' MSL) @ 5364.00usft (RIG (KB= 18'))
Project:	DUCHESNE COUNTY, UT (NAD 83)	**MD Reference:**	WELL(5346'+18'= 5,364' MSL) @ 5364.00usft (RIG (KB= 18'))
Site:	CENTRAL BASIN (NAD 83)	**North Reference:**	True
Well:	15-10-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	15-10-3-2WH		
Design:	15-10-3-2WH REV00		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,500.00	87.17	359.40	9,086.30	3,441.13	301.74	3,441.13	0.00	0.00	0.00
12,600.00	87.17	359.40	9,091.24	3,541.00	300.70	3,541.00	0.00	0.00	0.00
12,700.00	87.17	359.40	9,096.18	3,640.87	299.65	3,640.87	0.00	0.00	0.00
12,800.00	87.17	359.40	9,101.12	3,740.75	298.60	3,740.75	0.00	0.00	0.00
12,900.00	87.17	359.40	9,106.05	3,840.62	297.56	3,840.62	0.00	0.00	0.00
13,000.00	87.17	359.40	9,110.99	3,940.49	296.51	3,940.49	0.00	0.00	0.00
13,100.00	87.17	359.40	9,115.93	4,040.36	295.47	4,040.36	0.00	0.00	0.00
13,200.00	87.17	359.40	9,120.87	4,140.24	294.42	4,140.24	0.00	0.00	0.00
13,297.89	87.17	359.40	9,125.70	4,238.00	293.40	4,238.00	0.00	0.00	0.00
TD-PBHL= 13297.89 MD- 9125.70 TVD									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Sec. 10, T3S-R2W,	0.00	0.00	-16.00	4,904.88	2,283.48	7,260,722.93	2,035,013.37	40° 14' 38.410 N	110° 5' 10.810 W
- plan misses target center by 5410.40usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Polygon									
Point 1			-16.00	0.00	0.00	7,260,722.93	2,035,013.37		
Point 2			-16.00	-2,629.83	18.26	7,258,093.71	2,035,072.95		
Point 3			-16.00	-5,261.67	31.87	7,255,462.41	2,035,127.91		
Point 4			-16.00	-5,272.68	-2,593.37	7,255,410.15	2,032,503.16		
Point 5			-16.00	-5,284.51	-5,269.81	7,255,356.27	2,029,827.24		
Point 6			-16.00	-28.86	-5,274.97	7,260,611.19	2,029,739.50		
Point 7			-16.00	-9.00	-2,635.56	7,260,672.52	2,032,378.27		
Point 8			-16.00	0.00	0.00	7,260,722.93	2,035,013.37		
Sec. 10, T3S-R2W, 6(	0.00	0.00	-16.00	4,244.08	1,626.77	7,260,051.89	2,034,367.12	40° 14' 31.880 N	110° 5' 19.280 W
- plan misses target center by 4545.20usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Polygon									
Point 1			-16.00	0.00	0.00	7,260,051.89	2,034,367.12		
Point 2			-16.00	-1,972.11	14.61	7,258,080.26	2,034,412.71		
Point 3			-16.00	-3,942.21	24.57	7,256,110.55	2,034,453.63		
Point 4			-16.00	-3,950.94	-1,940.63	7,256,070.95	2,032,488.81		
Point 5			-16.00	-3,959.59	-3,955.47	7,256,030.64	2,030,474.35		
Point 6			-16.00	-61.87	-3,959.17	7,259,927.82	2,030,409.41		
Point 7			-16.00	-6.72	-1,976.52	7,260,014.12	2,032,390.95		
Point 8			-16.00	0.00	0.00	7,260,051.89	2,034,367.12		
Top Production	0.00	0.00	8,912.00	296.00	335.55	7,256,084.01	2,033,138.09	40° 13' 52.863 N	110° 5' 35.933 W
- plan misses target center by 6.40usft at 9349.34usft MD (8917.30 TVD, 295.46 N, 332.00 E)									
- Point									
TD-PBHL (15-10-3-2V	0.00	0.00	9,126.00	4,238.00	292.65	7,260,024.85	2,033,033.26	40° 14' 31.820 N	110° 5' 36.485 W
- plan misses target center by 0.80usft at 13297.89usft MD (9125.70 TVD, 4238.00 N, 293.40 E)									
- Point									

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RECEIVED: September 25, 2013

LEAM Drilling Systems LLC

Planning Report

LEAM Drilling Systems LLC

Database:	EDM 5000.1 Lynn Db	**Local Co-ordinate Reference:**	Well 15-10-3-2WH
Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	**TVD Reference:**	WELL(5346'+18'= 5,364' MSL) @ 5364.00usft (RIG (KB= 18'))
Project:	DUCHESNE COUNTY, UT (NAD 83)	**MD Reference:**	WELL(5346'+18'= 5,364' MSL) @ 5364.00usft (RIG (KB= 18'))
Site:	CENTRAL BASIN (NAD 83)	**North Reference:**	True
Well:	15-10-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	15-10-3-2WH		
Design:	15-10-3-2WH REV00		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
9,106.49	8,888.69	Uteland Butte C		2.83	0.00
9,259.75	8,908.20	Uteland Butte C-PZ1		2.83	0.00
9,630.58	8,944.44	Uteland Butte C-PZ2 HZ Tgt		2.83	0.00

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
2,500.00	2,500.00	0.00	0.00	Nudge KOP-Build= 2.00/100' MD
2,800.01	2,799.46	-11.39	10.80	EOB-Tangent= 4314.71 ft at 2800.01 MD
7,114.72	7,090.54	-338.61	321.20	Nudge Drop= -2.00/100' MD
7,414.73	7,390.00	-350.00	332.00	Nudge Vert Pt= 7414.73 MD-7390.00 TVD
8,405.73	8,381.00	-350.00	332.00	Curve- KOP- Build= 11.00°/100' MD
9,170.92	8,899.18	117.96	332.00	Land Pt.= 84.17° Angle= 9170.92 MD- 8899.18 TVD
9,355.92	8,917.97	302.01	332.00	Tangent= 200 ft at 9355.92 MD
9,555.92	8,938.28	500.97	332.00	Curve DLS= 3.00/100' MD- TFO -11.30
9,657.88	8,945.98	602.64	331.47	Land Pt. HZ Tgt= 87.17° Angle= 9657.88 MD- 8945.98 TVD
13,297.89	9,125.70	4,238.00	293.40	TD-PBHL= 13297.89 MD- 9125.70 TVD

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RECEIVED: September 25, 2013

AFFIDAVIT OF EASEMENT, RIGHT-OF-WAY AND SURFACE USE AGREEMENT

Peter Burns personally appeared before me, being duly sworn, deposes and with respect to State of Utah R649-3-34.7 says:

1. My name is Peter Burns. I am a Landman for Newfield Production Company, whose address is 1001 17th Street, Suite 2000, Denver, CO 80202 ("Newfield").

2. Newfield is the Operator of the proposed Dart 15-10-3-2WH well with a surface location to be positioned in the SWSE of Section 10, Township 3 South, Range 2 West (the "Drillsite Location"), and a bottom hole location to be positioned in the NWNE of Section 10, Township 3 South, Range 2 West, Duchesne County, Utah. The surface owner of the Drillsite Location is Dart Homestead Ranch, whose address is Route 2, Box 2044, Roosevelt, UT 84066 ("Surface Owner").

3. Newfield and the Surface Owner have agreed upon an Easement, Right-of-Way and Surface Use Agreement dated February 16, 2013 covering the Drillsite Location and access to the Drillsite Location.

FURTHER AFFIANT SAYETH NOT.

Peter Burns

ACKNOWLEDGEMENT

STATE OF COLORADO §
§
COUNTY OF DENVER §

Before me, a Notary Public, in and for the State, on this 2nd day of July, 2013, personally appeared Peter Burns, to me known to be the identical person who executed the foregoing instrument, and acknowledged to me that he executed the same as his own free and voluntary act and deed for the uses and purposes therein set forth.

CHRISTIAN CABRIN SIZEMORE
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20134036083
MY COMMISSION EXPIRES JUNE 10, 2017

NOTARY PUBLIC

My Commission Expires:

CONFIDENTIAL

AFFIDAVIT OF EASEMENT AND RIGHT-OF-WAY

Peter Burns personally appeared before me, being duly sworn, deposes and with respect to State of Utah R649-3-34.7 says:

1. My name is Peter Burns. I am a Landman for Newfield Production Company, whose address is 1001 17th Street, Suite 2000, Denver, CO 80202 ("Newfield").

2. Newfield is the Operator of the proposed Dart 15-10-3-2WH, Ranch 16-10-3-2WH, D-15-22-3-2WH and 3-15-22-3-2WH wells with surface locations to be positioned in the S/2S/2 of Section 10, Township 3 South, Range 2 West, Duchesne County, Utah (the "Drillsite Location"). The surface owner of a portion of the access road is Mack Rideout, Personal Representative of the Estate of Sherman D. Rideout, whose address is 3634 Capstone Ave., Salt Lake City, UT 84121 ("Surface Owner").

3. Newfield and the Surface Owner have agreed upon an Easement and Right-of-Way dated December 10, 2012 covering the SWNW of Section 14, Township 3 South, Range 2 West, Duchesne County, Utah.

CONFIDENTIAL

FURTHER AFFIANT SAYETH NOT.

Peter Burns

ACKNOWLEDGEMENT

STATE OF COLORADO §
§
COUNTY OF DENVER §

Before me, a Notary Public, in and for the State, on this 3rd day of July, 2013, personally appeared Peter Burns, to me known to be the identical person who executed the foregoing instrument, and acknowledged to me that he executed the same as his own free and voluntary act and deed for the uses and purposes therein set forth.

NOTARY PUBLIC

My Commission Expires:

ALAN D. WILD NOTARY PUBLIC STATE OF COLORADO MY COMMISSION EXPIRES 2/17/2015

AFFIDAVIT OF EASEMENT AND RIGHT-OF-WAY

Peter Burns personally appeared before me, being duly sworn, deposes and with respect to State of Utah R649-3-34.7 says:

1. My name is Peter Burns. I am a Landman for Newfield Production Company, whose address is 1001 17th Street, Suite 2000, Denver, CO 80202 ("Newfield").

2. Newfield is the Operator of the proposed Dart 15-10-3-2WH, Ranch 16-10-3-2WH, D-15-22-3-2WH and 3-15-22-3-2WH wells with surface locations to be positioned in the S/2S/2 of Section 10, Township 3 South, Range 2 West, Duchesne County, Utah (the "Drillsite Location"). The surface owner of a portion of the access road and pipeline route is William Mellema, Jr. - Trustee, whose address is P.O. Box 1198, Parker, CO 80134-1198 ("Surface Owner").

3. Newfield and the Surface Owner have agreed upon an Easement and Right-of-Way dated September 20, 2012 covering the N/2 and SE/4SW/4 of Section 15, Township 3 South, Range 2 West, Duchesne County, Utah.

CONFIDENTIAL

FURTHER AFFIANT SAYETH NOT.

Peter Burns

ACKNOWLEDGEMENT

STATE OF COLORADO §
§
COUNTY OF DENVER §

Before me, a Notary Public, in and for the State, on this 3rd day of July 2013, personally appeared Peter Burns, to me known to be the identical person who executed the foregoing instrument, and acknowledged to me that he executed the same as his own free and voluntary act and deed for the uses and purposes therein set forth.

NOTARY PUBLIC

My Commission Expires:

ALAN D. WILD NOTARY PUBLIC STATE OF COLORADO MY COMMISSION EXPIRES 2/17/2015

AFFIDAVIT OF EASEMENT AND RIGHT-OF-WAY

Peter Burns personally appeared before me, being duly sworn, deposes and with respect to State of Utah R649-3-34.7 says:

1. My name is Peter Burns. I am a Landman for Newfield Production Company, whose address is 1001 17th Street, Suite 2000, Denver, CO 80202 ("Newfield").

2. Newfield is the Operator of the proposed Dart 15-10-3-2WH, Ranch 16-10-3-2WH, D-15-22-3-2WH and 3-15-22-3-2WH wells with surface locations to be positioned in the S/2S/2 of Section 10, Township 3 South, Range 2 West, Duchesne County, Utah (the "Drillsite Location"). The surface owner of a portion of the access road is Bruce Dart, Trustee, whose address is Route 2, Box 2044, Roosevelt, UT 84066 ("Surface Owner").

3. Newfield and the Surface Owner have agreed upon an Easement and Right-of-Way dated February 16, 2013 covering the E/2NW and N/2NE of Section 14, Township 3 South, Range 2 West, Duchesne County, Utah.

FURTHER AFFIANT SAYETH NOT.

Peter Burns

CONFIDENTIAL

ACKNOWLEDGEMENT

STATE OF COLORADO §
§
COUNTY OF DENVER §

Before me, a Notary Public, in and for the State, on this 3rd day of July 2013, personally appeared Peter Burns, to me known to be the identical person who executed the foregoing instrument, and acknowledged to me that he executed the same as his own free and voluntary act and deed for the uses and purposes therein set forth.

NOTARY PUBLIC

My Commission Expires:

NEWFIELD

July 9, 2013

State of Utah
Division of Oil, Gas & Mining
ATTN: Brad Hill
PO Box 145801
Salt Lake City, UT 84114

Newfield Exploration Company
1001 17th Street | Suite 2000
Denver, Colorado 80202
PH 303-893-0102 | FAX 303-893-0103

RE: 15-10-3-2WH
Township 3 South, Range 2 West, Section 10
Duchesne County, Utah

Dear Mr. Hill,

Newfield Production Company ("Newfield") proposes to drill the 15-10-3-2WH from a surface location of 368' FSL and 2311' FEL of Section 10, T3S R2W, to a bottom hole location of 660' FNL and 1980' FEL of Section 10, T3S R2W.

The 15-10-3-2WH is covered by Order No. 139-90, which requires no portion of the producing interval of the horizontal lateral be closer than 660' from the northern or southern section boundaries and no closer than 660' from the eastern or western section boundaries.

In compliance with the above referenced Order, the top of the uppermost producing zone of the 15-10-3-2WH is 660' FSL and 1980' FEL of 3S 2W Section 10. Newfield shall case and cement the 15-10-3-2WH wellbore from the surface location to the point where the wellbore reaches the legal setback, and the wellbore will only be completed within the legal setback. In the event a future recompletion outside of this setback is proposed, Newfield shall attempt to acquire consent from all the owners in Section 15 of T3S R2W, and shall file the appropriate application with the State. The bottom hole location of the 15-10-3-2WH is 660' FNL and 1980' FEL of 3S 2W Section 10, which is within the legal setback.

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Newfield has also obtained authorization from the surface owner of the drilling location, as is evidenced by the Affidavit of Easement, Right-of-Way and Surface Use Agreement attached to the APD. Newfield and its partners are the leasehold owners of the minerals underlying the surface location and all that portion of the wellbore of the 15-10-3-2WH lying outside the drilling unit.

Based on Newfield's compliance with the requirements of Order No. 139-90, Newfield respectfully requests the approval of our APD for the 15-10-3-2WH.

If you have any questions or require further information, please do not hesitate to contact the undersigned at 303-382-4466 or by email at rnmiller@newfield.com. Your consideration of this matter is greatly appreciated.

Sincerely,

Robert N. Miller II
Landman

API Well Number: 43013522960000

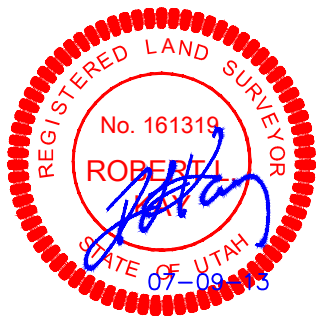
NEWFIELD EXPLORATION COMPANY

LOCATION LAYOUT FOR

#15-10-3-2 WELL PAD FOR
#16-10-3-2WH & #15-10-3-2WH
SECTION 10, T3S, R2W, U.S.B.&M.
SW 1/4 SE 1/4

FIGURE #1

SCALE: 1" = 60'
DATE: 05-02-13
DRAWN BY: S.F.
REVISED: 05-28-13
REVISED: 07-09-13



Winds
Prevailing
Pit
Previously Approved
#2-15-22-3-2WH Well Pad
Previously Approved
Surface Use Area
for the #2-15-22-3-2WH
Well Pad
Proposed Access Road Re-Route
Top of
Producing
Formation
N00°15'51"W - 3943.78'
(To Target Bottom Hole)
Target
Bottom
Hole
Proposed
Egress Road
F-8.1'
El. 37.9'
C-14.7'
El. 60.7'
185'
(To Top of Producing Formation)
N80°14'56"E - 1703.48'
F-1.4'
El. 44.6'
Sta. 4+30
Round Corners
as Needed
NOTE:
Earthwork Calculations Require a
Fill @ the Location Stakes
For Balance. All Fill is to be
Compacted to a Minimum of 95%
of the Maximum Dry Density
Obtained by AASHTO Method t-99.
Top of
Producing
Formation
Approx.
Top of
Cut Slope
N00°15'51"W - 3944.53'
(To Target Bottom Hole)
N48°23'23"E - 441.29'
(To Top of Producing Formation)
Cut/Fill
Transition Line
Topsoil Stockpile
Target
Bottom
Hole
C-15.8'
El. 61.8'
120'
65'
30'
#15-10
F-1.4'
El. 44.6'
150'
Sta. 2+00
#16-10
F-2.3'
El. 43.7'
F-12.3'
El. 33.7'
35'
60'
100'
CUTTINGS PIT
(2' Berm AND 8' Deep
10' Total Depth)
El. 54.7'
C-16.7'
(Btm. Pit)
C-4.0'
El. 50.0'
200'
Sta. 1+00
230'
El. 51.4'
C-13.4'
(Btm. Pit)
F-0.1'
El. 45.9'
F-6.5'
El. 39.5'
Sta. 0+00
C-7.6'
El. 53.6'
F-11.7'
El. 34.3'
Cuttings Pit Backfill
Pit Topsoil
Approx.
Toe of
Fill Slope
Total Pit Capacity
W/2' of Freeboard
= 6,080 Bbls.±
Total Pit Volume
= 1,740 Cu. Yds
Proposed Surface Use
Area Expansion
Proposed Access Road
Proposed Pipeline for the
#13-10-3-2 Well Pad
Proposed Access Road for
the #13-10-3-2 Well Pad
5362
5364
5360
5358
5356
5354
5352
5350
5348
5346
5344
5342
5340
5338
5336
5334
5332
5330
5328
5326
5324
5372
5370
5368
5366

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Elev. Ungraded Ground At #16-10-3-2WH Loc. Stake = 5343.7'
FINISHED GRADE ELEV. AT #16-10-3-2WH LOC. STAKE = 5346.0'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

RECEIVED: July 12, 2013

1" = 40'
X-Section Scale
1" = 100'

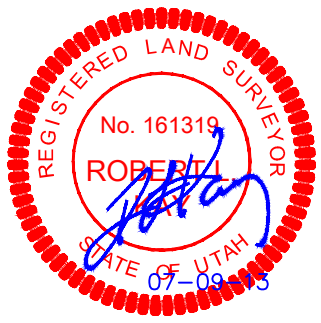
DATE: 05-02-13
DRAWN BY: S.F.
REVISED: 05-28-13
REVISED: 07-09-13

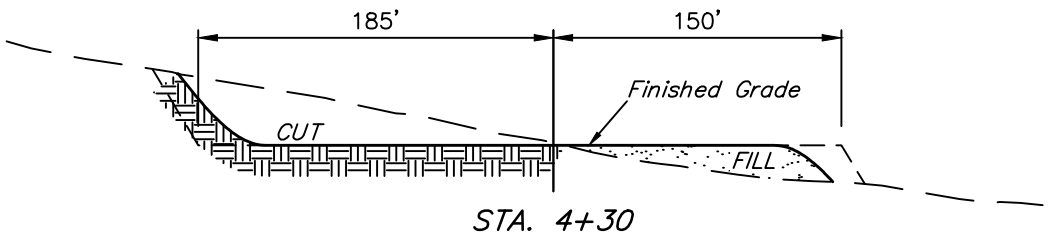
NEWFIELD EXPLORATION COMPANY

TYPICAL CROSS SECTIONS FOR

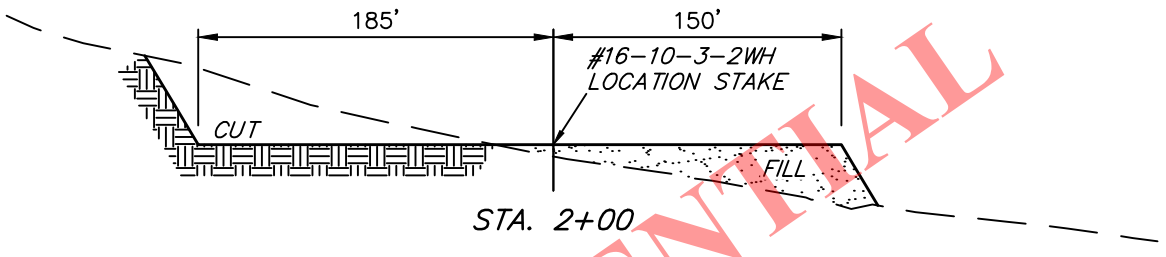
#15-10-3-2 WELL PAD FOR
#16-10-3-2WH & #15-10-3-2WH
SECTION 10, T3S, R2W, U.S.B.&M.
SW 1/4 SE 1/4

FIGURE #2

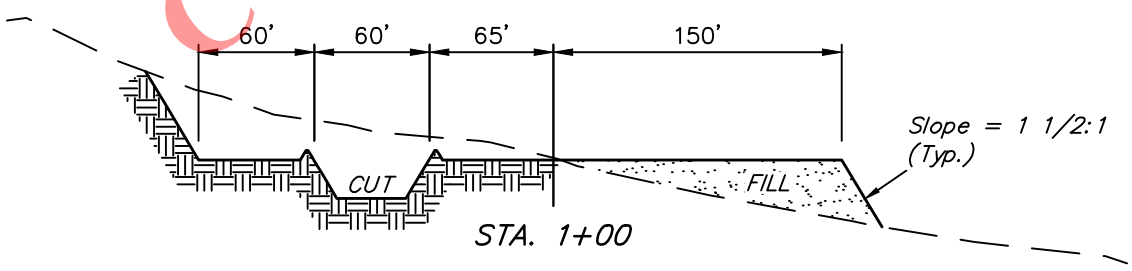




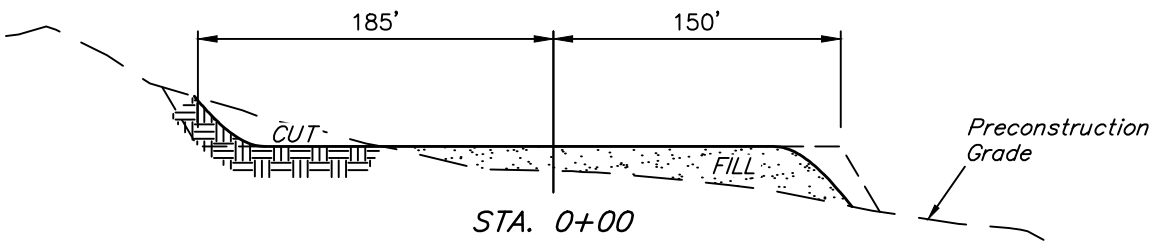
STA. 4+30



STA. 2+00



STA. 1+00



STA. 0+00

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* NOTE:
FILL QUANTITY INCLUDES
5% FOR COMPACTION

APPROXIMATE ACREAGE

ORIGINAL PROPOSED WELL
SITE DISTURBANCE = ± 5.702 ACRES
NEW (ADDITIONAL TO ORIGINAL) PROPOSED
EXPANSION WELL SITE DISTURBANCE = ± 5.058 ACRES
ACCESS ROAD DISTURBANCE = ± 0.427 ACRES
PIPELINE DISTURBANCE = ± 0.204 ACRES
TOTAL = ± 11.391 ACRES

APPROXIMATE YARDAGES

(6") Topsoil Stripping	=	3,100 Cu. Yds.
Remaining Location	=	19,880 Cu. Yds.
TOTAL CUT	=	22,980 CU. YDS.
FILL	=	19,010 CU. YDS.

EXCESS MATERIAL	=	3,970 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	3,970 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	=	0 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

RECEIVED: July 12, 2013

API Well Number: 43013522960000

NEWFIELD EXPLORATION COMPANY

TYPICAL RIG LAYOUT FOR

#15-10-3-2 WELL PAD FOR
#16-10-3-2WH & #15-10-3-2WH
SECTION 10, T3S, R2W, U.S.B.&M.
SW 1/4 SE 1/4

FIGURE #3

SCALE: 1" = 60'
DATE: 05-02-13
DRAWN BY: S.F.
REVISED: 07-09-13

REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH
07-09-13

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Pit

Previously Approved
#2-15-22-3-2WH Well Pad

Proposed Access Road Re-Route

Proposed
Egress Road

185'

DATA

Round Corners
as Needed

200'

Cut/Fill
Transition Line

230'

CATWALK

PIPE RACKS

DOG HOUSE

RIG

30'

WATER

MUD TANKS

120'

65'

150'

TRAILER

PUMP

TOILET

MUD SHED

FUEL

HOPPER

POWER

TOOLS

FUEL

35'

60'

100'

CUTTINGS PIT
(2' Berm AND 8' Deep
10' Total Depth)

200'

Topsoil Stockpile

STORAGE
TANK

TRASH

Approx.
Top of
Cut Slope

Cuttings Pit Backfill

Pit Topsoil

Approx.
Toe of
Fill Slope

Total Pit Capacity
W/2' of Freeboard
= 6,080 Bbls.±
Total Pit Volume
= 1,740 Cu. Yds

Proposed Access Road

Proposed Pipeline for the
#13-10-3-2 Well Pad

Proposed Access Road for
the #13-10-3-2 Well Pad

5372 5370 5368 5366 5364 5362 5360 5358 5356 5354 5352 5350 5348 5346 5344 5342 5340 5338 5336 5334 5332 5330 5328 5326 5324

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

RECEIVED: July 12, 2013

API Well Number: 43013522960000

NEWFIELD EXPLORATION COMPANY

PRODUCTION FACILITY LAYOUT FOR

#15-10-3-2 WELL PAD FOR
#16-10-3-2WH & #15-10-3-2WH
SECTION 10, T3S, R2W, U.S.B.&M.
SW 1/4 SE 1/4

FIGURE #4

SCALE: 1" = 60'
DATE: 05-02-13
DRAWN BY: S.F.
REVISED: 05-28-13
REVISED: 07-09-13

REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH
07-09-13

Pit

Previously Approved
#2-15-22-3-2WH Well Pad

Access Road Re-Route

Egress Road

400 BBL Tank

500 BBL Tanks

Meter Build.

Anchor (Typ.)

Separator/Heater

Approx. Top of Cut Slope

Cut/Fill Transition Line

#15-10-3-2WH

#16-10-3-2WH

Anchor (Typ.)

Topsoil Stockpile

Approx. Toe of Fill Slope

Proposed Access Road

Pipeline for the #13-10-3-2 Well Pad

Access Road for the #13-10-3-2 Well Pad

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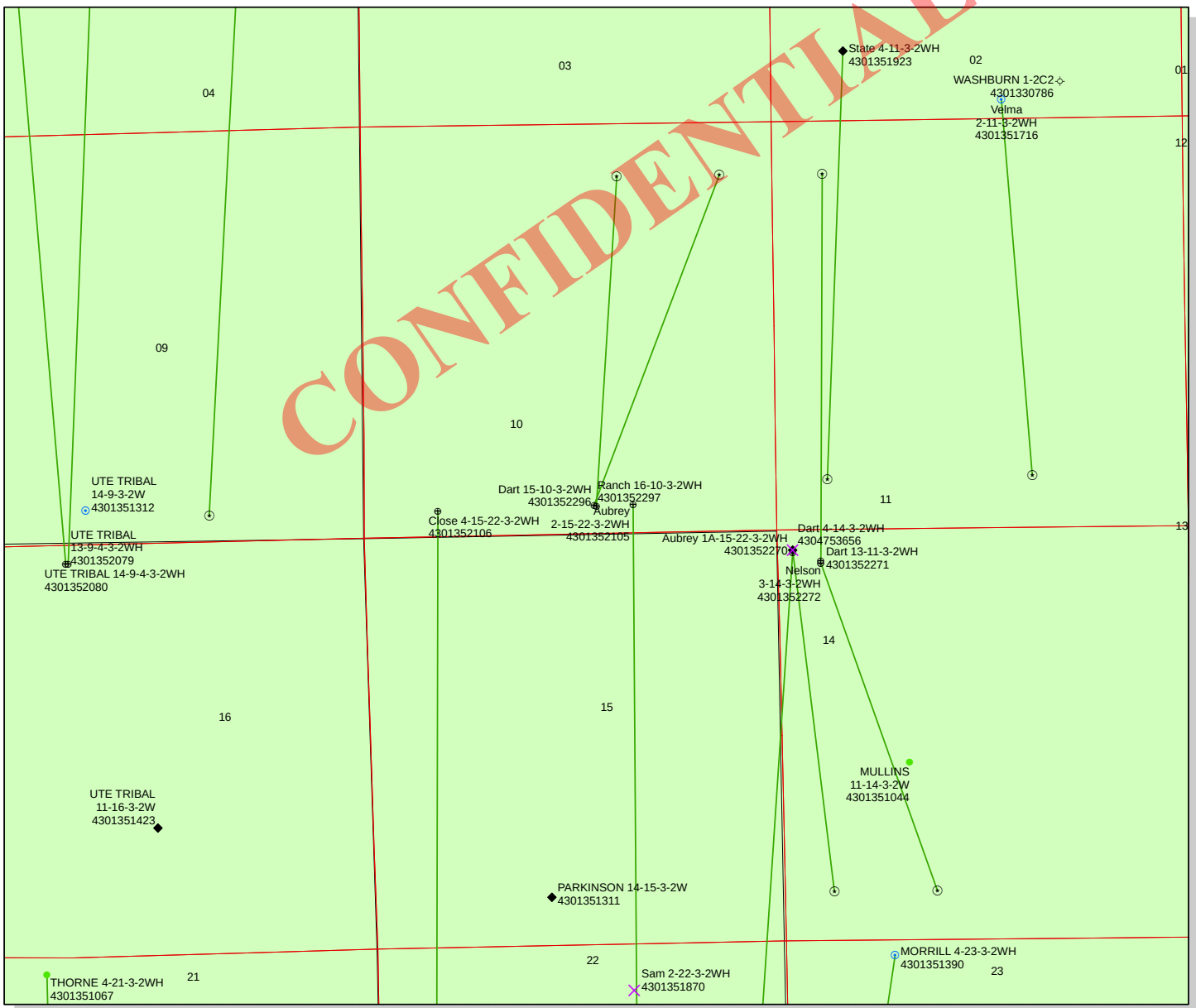
RECLAIMED AREA

APPROXIMATE ACREAGE
UN-RECLAIMED = ± 1.380 ACRES

UINTAH ENGINEERING & LAND SURVEYING
*85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017*

RECEIVED: July 12, 2013

API Well Number: 43013522960000



API Number: 4301352296

Well Name: Dart 15-10-3-2WH

Township T03.0S Range R02.0W Section 10

Meridian: UBM

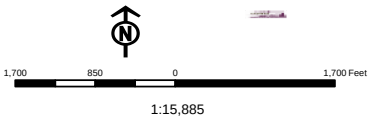
Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:
Map Produced by Diana Mason

Units

STATUS

- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED



1:15,885

RECEIVED: July 17, 2013

API Well Number: 43013522960000

BOPE REVIEW NEWFIELD PRODUCTION COMPANY Dart 15-10-3-2WH 43013522960000

Well Name	NEWFIELD PRODUCTION COMPANY Dart 15-10-3-2WH 4301352296			
String	COND	SURF	I1	PROD
Casing Size(")	20.000	13.375	9.625	5.500
Setting Depth (TVD)	60	1500	8400	9126
Previous Shoe Setting Depth (TVD)	0	60	1500	8400
Max Mud Weight (ppg)	8.3	8.4	10.5	14.5
BOPE Proposed (psi)	0	500	5000	5000
Casing Internal Yield (psi)	1000	2730	5750	12360
Operators Max Anticipated Pressure (psi)	6643			14.0

Calculations	COND String	20.000	"	
Max BHP (psi)	.052*Setting Depth*MW=	26		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	19	NO	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	13	NO	
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	13	NO	
Required Casing/BOPE Test Pressure=		60	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient	

Calculations	SURF String	13.375	"	
Max BHP (psi)	.052*Setting Depth*MW=	655		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	475	YES	diverter
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	325	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	338	NO	OK
Required Casing/BOPE Test Pressure=		1500	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		60	psi *Assumes 1psi/ft frac gradient	

Calculations	I1 String	9.625	"	
Max BHP (psi)	.052*Setting Depth*MW=	4586		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3578	YES	5M BOPE, ram type, 5M annular
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2738	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	3068	NO	OK
Required Casing/BOPE Test Pressure=		4025	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		1500	psi *Assumes 1psi/ft frac gradient	

Calculations	PROD String	5.500	"	
Max BHP (psi)	.052*Setting Depth*MW=	6881		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	5786	NO	5M BOPE, 2 ram preventers, annular
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	4873	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	6721	YES	
Required Casing/BOPE Test Pressure=		5000	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		5750	psi *Assumes 1psi/ft frac gradient	

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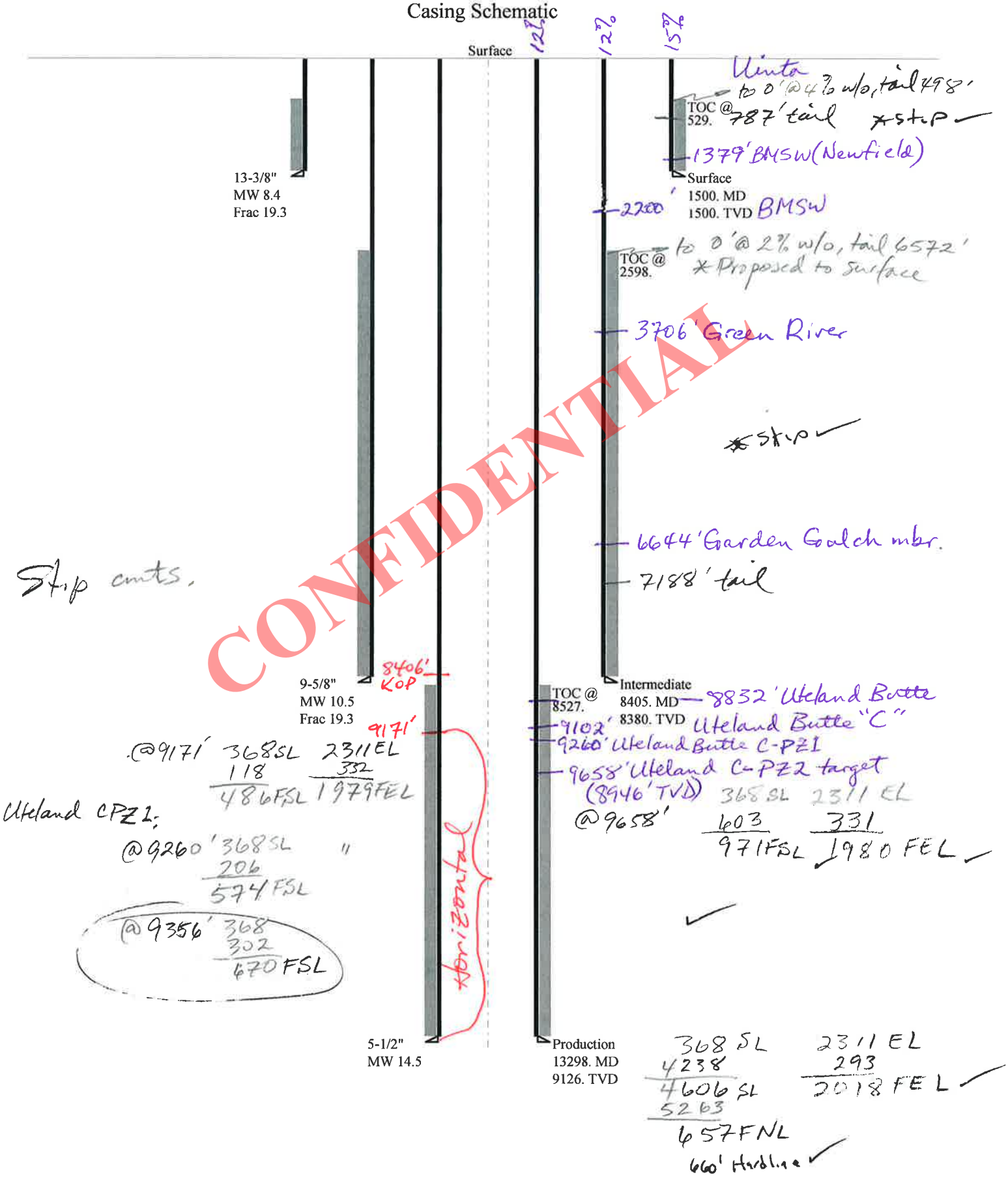
RECEIVED: October 16, 2013

API Well Number: 43013522960000

43013522960000 Dart 15-10-3-2WHrev

Casing Schematic



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API Well Number: 43013522960000

Well name:	**43013522960000 Dart 15-10-3-2WHrev**
Operator:	**NEWFIELD PRODUCTION COMPANY**
String type:	Surface
Project ID:	43-013-52296
Location:	DUCHESNE COUNTY

Design parameters:

Collapse
Mud weight: 8.400 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 1,320 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 1,500 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

Tension:
8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on buoyed weight.
Neutral point: 1,314 ft

Environment:
H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 95 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 529 ft

Non-directional string.

Re subsequent strings:
Next setting depth: 8,400 ft
Next mud weight: 10.500 ppg
Next setting BHP: 4,582 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 1,500 ft
Injection pressure: 1,500 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
1	1500	13.375	54.50	J-55	ST&C	1500	1500	12.49	18611

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	655	1130	1.727	1500	2730	1.82	71.6	514	7.18 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: August 28,2013
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 1500 ft, a mud weight of 8.4 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

CONFIDENTIAL

API Well Number: 43013522960000

Well name:	**43013522960000 Dart 15-10-3-2WHrev**
Operator:	**NEWFIELD PRODUCTION COMPANY**
String type:	Intermediate
Project ID:	43-013-52296
Location:	DUCHESNE COUNTY

Design parameters:

Collapse

Mud weight:	10.500 ppg
Internal fluid density:	4.930 ppg

Burst

Max anticipated surface pressure:	4,866 psi
Internal gradient:	0.220 psi/ft
Calculated BHP	6,710 psi
Annular backup:	2.33 ppg

Minimum design factors:

Collapse:

Design factor	1.125

Burst:

Design factor	1.00

Tension:

8 Round STC:	1.80 (J)
8 Round LTC:	1.80 (J)
Buttress:	1.60 (J)
Premium:	1.50 (J)
Body yield:	1.60 (B)

Tension is based on air weight.
Neutral point: 7,095 ft

Environment:

H2S considered?	No
Surface temperature:	74 °F
Bottom hole temperature:	191 °F
Temperature gradient:	1.40 °F/100ft
Minimum section length:	1,000 ft
Cement top:	2,598 ft

Directional well information:

Kick-off point	8406 ft
Departure at shoe:	482 ft
Maximum dogleg:	2 °/100ft
Inclination at shoe:	0 °

Re subsequent strings:

Next setting depth:	9,126 ft
Next mud weight:	14.500 ppg
Next setting BHP:	6,874 psi
Fracture mud wt:	19.250 ppg
Fracture depth:	8,380 ft
Injection pressure:	8,380 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
1	8405	9.625	40.00	N-80	Buttress	8380	8405	8.75	114441

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	2425	3090	1.274	5696	5750	1.01	335.2	916.3	2.73 B

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: September 30,2013
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 8380 ft, a mud weight of 10.5 ppg An internal gradient of .256 psi/ft was used for collapse from TD
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.
Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

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Well name:	**43013522960000 Dart 15-10-3-2WHrev**
Operator:	**NEWFIELD PRODUCTION COMPANY**
String type:	Production
Project ID:	43-013-52296
Location:	DUCHESNE COUNTY

Design parameters:

Collapse
Mud weight: 14.500 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 4,866 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 6,874 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

Tension:
8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Tension is based on air weight.
Neutral point: 7,147 ft

Environment:
H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 202 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Cement top: 8,527 ft

Directional well information:
Kick-off point 8406 ft
Departure at shoe: 4248 ft
Maximum dogleg: 11 °/100ft
Inclination at shoe: 87.17 °

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Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
1	13298	5.5	20.00	P-110	Buttress	9126	13298	4.653	110323

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	6874	11100	1.615	6874	12360	1.80	182.5	641.1	3.51 B

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: September 30,2013
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 9126 ft, a mud weight of 14.5 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.
Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

ON-SITE PREDRILL EVALUATION
Utah Division of Oil, Gas and Mining

Operator NEWFIELD PRODUCTION COMPANY
Well Name Dart 15-10-3-2WH

API Number 43013522960000 **APD No** 8273 **Field/Unit** NORTH MYTON BENCH

Location: 1/4,1/4 SWSE **Sec** 10 **Tw** 3.0S **Rng** 2.0W 368 FSL 2311 FEL
GPS Coord (UTM) 577020 4453733 **Surface Owner** Dart Homestead Ranch, Inc.

Participants

Bruce Dart - Landowner ; Jim Burns - Starpoint ; Forrest Bird, Mandie Crozier, Matt Barber - NFX; Kyle Gardiner - Uintah Engineering

Regional/Local Setting & Topography

on pad previously permitted. Pad will be extended to larger size of 2 pads with 2 pits, tank farms etc.
Previous pad Aubrey 2-15-22-3-2WH original language follows

The location is proposed on fallow grazing lands on the edge of the North Myton Bench. Drainages from the bench impact the site in two places. The area is rather barren of vegetation and the soils are clays. There are numerous eroded knolls and slight swales with an historic floodpalin below. The location is one mile West of Highway 40 and 2 1/2 miles North of Myton just off Dart lane. The region is comprised of benches of differing levels and floodplains form the Duchesne River that has moved from its historic route. The soils are highly erodible and vegetation is sparse with the exception of the floodplains that are quite productive farmlands. Occassional buttes and numerous deep cut erosional features describe the region that is experiencing rapid growth in petroleum development.

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Surface Use Plan

Current Surface Use
Grazing
Wildlfe Habitat

New Road Miles	Well Pad	Src Const Material	Surface Formation
0.5	**Width** 235 **Length** 400	Offsite	UNTA

Ancillary Facilities

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

RECEIVED: October 22, 2013

High desert shrubland ecosystem. Expected vegetation consists of black sagebrush, shadscale, Atriplex spp., mustard spp, rabbit brush, horsebrush, broom snakeweed, Opuntia spp and spring annuals.
Dominant vegetation;
Galletta, mat atriplex and broom snake weed
Wildlife;
Adjacent habitat contains forbs that may be suitable browse for deer, antelope, prairie dogs or rabbits. Wild turkeys have moved in and were encountered multiple times.
DWR did not respond with comments / issues

Soil Type and Characteristics

fat , light colored clays soils

Erosion Issues Y

Sedimentation Issues Y

Site Stability Issues N

Drainage Diverson Required? Y

plans show diversion placement

Berm Required? Y

Erosion Sedimentation Control Required? N

Paleo Survey Run? N **Paleo Potental Observed?** N **Cultural Survey Run?** N **Cultural Resources?** N

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Reserve Pit

Site-Specific Factors		Site Ranking	
Distance to Groundwater (feet)	75 to 100	10	
Distance to Surface Water (feet)		20	
Dist. Nearest Municipal Well (ft)	500 to 1320	10	
Distance to Other Wells (feet)		20	
Native Soil Type	Mod permeability	10	
Fluid Type	Oil Base Mud Fluid	15	
Drill Cuttings	Normal Rock	0	
Annual Precipitation (inches)	10 to 20	5	
Affected Populations			
Presence Nearby Utility Conduits	Present	15	
	Final Score	105	1 Sensitivity Level

Characteristics / Requirements

RECEIVED: October 22, 2013

Operator intends to use an oil based drilling mud and is therefore required to use a closed loop system. If a reserve pit and freshwater is used, Pit to be dug to a depth of 8'. Because of the likely hood of disturbance to existing sandstone bedrock , pit underlayment is to be used to protect the liner from potential puncture. Pit should be fenced to prevent entry by deer, other wildlife and domestic animals. Pit to be closed within one year after drilling activities are complete.

Closed Loop Mud Required? Y **Liner Required?** Y **Liner Thickness** 16 **Pit Underlayment Required?** Y

Other Observations / Comments

This is a pad that is intended as an extension of a pad that was previously permitted yet not built. They intend to extend this pad by approximately one more pad built immediately adjacent and connecting. It will have two very large cuttings pits etc.

Chris Jensen	7/25/2013
Evaluator	**Date / Time**

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RECEIVED: October 22, 2013

Application for Permit to Drill
Statement of Basis
Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
8273	43013522960000	LOCKED	OW	P	No
Operator	NEWFIELD PRODUCTION COMPANY		**Surface Owner-APD**	Dart Homestead Ranch, Inc.	
Well Name	Dart 15-10-3-2WH		**Unit**		
Field	NORTH MYTON BENCH		**Type of Work**	DRILL	
Location	SWSE 10 3S 2W U 368 FSL 2311 FEL GPS Coord (UTM) 577030E 4453730N				

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Geologic Statement of Basis

Newfield proposes to set 60' of conductor and 1,500' of surface casing at this location. The base of the moderately saline water at this location is estimated to be at a depth of 2,200'. A search of Division of Water Rights records shows 23 water wells within a 10,000 foot radius of the center of Section 10. Depth is listed as ranging from 32 to 800 feet. Depths are not listed for 4 wells. Water use is listed as irrigation, stock watering, municipal and domestic use. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Intermediate casing cement should be brought up to or above the estimated base of the moderately saline ground water.

Brad Hill	8/7/2013
APD Evaluator	**Date / Time**

Surface Statement of Basis

Location is proposed in a good location although outside the spacing window typical of a horizontal well. Access road enters the pad from the east. The landowner was in attendance for the pre-site inspection.
The soil type and topography at present do combine to pose a small threat to erosion or sediment/ pollution transport in these regional climate conditions.
Usual construction standards of the Operator appear to be adequate for the proposed purpose as submitted. Operator has plans to use a closed loop system an oil based mud not indicated on plans.
I recognize no special flora or animal species or cultural resources on site that the proposed action may harm. The location was previously surveyed for cultural and paleontological resources as the operator saw fit. I have advised the operator take all measures necessary to comply with ESA and MBTA and that actions insure no disturbance to species that may have not been seen during onsite visit.
The location should be bermed to prevent fluids from entering or leaving the confines of the pad. Fencing around the reserve pit will be necessary to prevent wildlife and livestock from entering. A synthetic liner of 16 mils (minimum) should be utilized in the reserve pit. Measures (BMP's) shall be taken to protect steep slopes and topsoil pile from erosion, sedimentation and stability issues. A diversion is to be built sufficient to conduct overland or channel flow according to plans submitted

RECEIVED: October 22, 2013

Chris Jensen	7/25/2013
Onsite Evaluator	**Date / Time**

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A closed loop mud circulation system is required for this location.
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the cuttings pit.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	The reserve pit shall be fenced upon completion of drilling operations.
Surface	Measures (BMP's) shall be taken to protect steep slopes and topsoil pile from erosion, sedimentation and stability issues.

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RECEIVED: October 22, 2013

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 7/12/2013 **API NO. ASSIGNED:** 43013522960000

WELL NAME: Dart 15-10-3-2WH

OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695) **PHONE NUMBER:** 435 719-2018

CONTACT: Don Hamilton

PROPOSED LOCATION: SWSE 10 030S 020W **Permit Tech Review:** ☑

SURFACE: 0368 FSL 2311 FEL **Engineering Review:** ☑

BOTTOM: 0660 FNL 1980 FEL **Geology Review:** ☑

COUNTY: DUCHESNE

LATITUDE: 40.23046 **LONGITUDE:** -110.09454

UTM SURF EASTINGS: 577030.00 **NORTHINGS:** 4453730.00

FIELD NAME: NORTH MYTON BENCH

LEASE TYPE: 4 - Fee

LEASE NUMBER: Patented **PROPOSED PRODUCING FORMATION(S):** UTELAND BUTTE

SURFACE OWNER: 4 - Fee **COALBED METHANE:** NO

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RECEIVED AND/OR REVIEWED:

- ☑ **PLAT**
- ☑ **Bond:** STATE - B001834
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☑ **Water Permit:** 437478
- ☐ **RDCC Review:**
- ☑ **Fee Surface Agreement**
- ☐ **Intent to Commingle**

Commingling Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**

Unit:

- ☐ **R649-3-2. General**
- ☑ **R649-3-3. Exception**
- ☑ **Drilling Unit**

Board Cause No: Cause 139-90

Effective Date: 5/9/2012

Siting: 4 Prod LGRRV-WSTC Wells

- ☐ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations:

1 - Exception Location - bhill
5 - Statement of Basis - bhill
8 - Cement to Surface -- 2 strings - hmacdonald
13 - Cement Volume Formation (3a) - hmacdonald
27 - Other - dmason
28 - Other2 - ddoucet

RECEIVED: October 22, 2013

GARY R. HERBERT
Governor
GREGORY S. BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

Permit To Drill
****

Well Name: Dart 15-10-3-2WH
API Well Number: 43013522960000
Lease Number: Patented
Surface Owner: FEE (PRIVATE)
Approval Date: 10/22/2013

Issued to:
NEWFIELD PRODUCTION COMPANY , Rt 3 Box 3630 , Myton, UT 84052

Authority:
Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-90. The expected producing formation or pool is the UTELAND BUTTE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:
This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Exception Location:
Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

General:
Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:
Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

In accordance with Utah Admin. R.649-3-21, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Cement volume for the 5 1/2" production string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 7406' MD in order to adequately isolate the Green River formation and honor legal setback.

Cement volumes for the 13 3/8" and 9 5/8" casing strings shall be determined from actual hole diameters in order to place cement from the pipe setting depths back to the surface.

Horizontal lateral shall not be completed outside legal setbacks (approximately 9356' measured depth based on submitted directional drilling plan).

Additional Approvals:
The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan - contact Dustin Doucet
- Significant plug back of the well - contact Dustin Doucet
- Plug and abandonment of the well - contact Dustin Doucet

Notification Requirements:
The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels
  OR
  submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
  at http://oilgas.ogm.utah.gov
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing - contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program
  - contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well - contact Dan Jarvis

Contact Information:
The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
  801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
  801-231-8956 - after office hours

Reporting Requirements:
All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to

implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:

For John Rogers
Associate Director, Oil & Gas

API Well Number: 43013522960000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3
AMENDED REPORT ☑

APPLICATION FOR PERMIT TO DRILL

1. WELL NAME and NUMBER Dart 15-10-3-2WH	
2. TYPE OF WORK DRILL NEW WELL ● REENTER P&A WELL ○ DEEPEN WELL ○	**3. FIELD OR WILDCAT** NORTH MYTON BENCH
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO	**5. UNIT or COMMUNITIZATION AGREEMENT NAME**
6. NAME OF OPERATOR NEWFIELD PRODUCTION COMPANY	**7. OPERATOR PHONE** 435 646-4825
8. ADDRESS OF OPERATOR Rt 3 Box 3630 , Myton, UT, 84052	**9. OPERATOR E-MAIL** mcrozier@newfield.com
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) Patented **11. MINERAL OWNERSHIP** FEDERAL ○ INDIAN ○ STATE ○ FEE ●	**12. SURFACE OWNERSHIP** FEDERAL ○ INDIAN ○ STATE ○ FEE ●
13. NAME OF SURFACE OWNER (if box 12 = 'fee') Dart Homestead Ranch, Inc.	**14. SURFACE OWNER PHONE (if box 12 = 'fee')** 435-722-7087
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') Route 2, Box 2044, Roosevelt, UT 84066	**16. SURFACE OWNER E-MAIL (if box 12 = 'fee')**
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') **18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS** YES ○ (Submit Commingling Application) NO ●	**19. SLANT** VERTICAL ○ DIRECTIONAL ○ HORIZONTAL ●

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	368 FSL 2311 FEL	SWSE	10	3.0 S	2.0 W	U
Top of Uppermost Producing Zone	660 FSL 1980 FEL	SWSE	10	3.0 S	2.0 W	U
At Total Depth	660 FNL 1980 FEL	NWNE	10	3.0 S	2.0 W	U

21. COUNTY DUCHESNE	**22. DISTANCE TO NEAREST LEASE LINE (Feet)** 368	**23. NUMBER OF ACRES IN DRILLING UNIT** 40
	25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 30	**26. PROPOSED DEPTH** MD: 13297 TVD: 9125
27. ELEVATION - GROUND LEVEL 5345	**28. BOND NUMBER** B001834	**29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE** 437478

Hole, Casing, and Cement Information

String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
COND	24	20	0 - 60	0.0	Unknown	0.0	Class G	57	1.17	15.8
SURF	17.5	13.375	0 - 1500	54.5	J-55 ST&C	8.4	Varocem	120	3.33	11.0
							Varocem	420	1.9	13.0
I1	12.25	9.625	0 - 8405	40.0	N-80 Buttress	10.5	Halliburton Light , Type Unknown	678	3.53	11.0
							50/50 Poz	492	1.29	14.0
PROD	8.75	5.5	0 - 13297	20.0	P-110 Other	14.5	50/50 Poz	1327	1.29	14.0

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

☑ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	☑ COMPLETE DRILLING PLAN
☑ AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	☐ FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
☑ DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	☑ TOPOGRAPHICAL MAP

NAME Don Hamilton	**TITLE** Permitting Agent	**PHONE** 435 719-2018
SIGNATURE	**DATE** 07/12/2013	**EMAIL** starpoint@etv.net

API NUMBER ASSIGNED 43013522960000	**APPROVAL** Permit Manager

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RECEIVED: October 22, 2013

Newfield Production Company
15-10-3-2WH
Surface Hole Location: 368' FSL, 2311' FEL, Section 10, T3S, R2W
Bottom Hole Location: 660' FNL, 1980' FEL, Section 10, T3S, R2W
Duchesne County, UT

Drilling Program

1. Formation Tops

Uinta	surface
Green River	3,706'
Garden Gulch member	6,644'
Uteland Butte member	8,832'
Lateral TD	9,125' TVD / 13,297' MD

2. Depth to Oil, Gas, Water, or Minerals

Base of moderately saline	1,379'		(water)
Green River	6,644'	- 8,832'	(oil)
Uteland Butte member	8,832'	- 9,125'	(oil)

3. Pressure Control

Section	BOP Description
Surface	12-1/4" Diverter
Intermediate	The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc for a 5M system.
Prod/Prod Liner	The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc for a 5M system. A 5M BOP system will consist of 2 ram preventers (double or two singles) and an annular preventer (see attached diagram). A choke manifold rated to at least 5,000 psi will be used

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4. Casing

Description	Interval		Weight (ppf)	Grade	Coup	Pore Press @ Shoe	MW @ Shoe	Frac Grad @ Shoe	Safety Factors		
	Top	Bottom (TVD/MD)							Burst	Collapse	Tension
Conductor	0'	60'	--	--	Weld	--	--	--	--	--	--
20									--	--	--
Surface	0'	1,500'	54.5	J-55	STC	8.33	8.4	14	2,730	1,130	514,000
13 3/8									2.68	2.24	6.29
Intermediate	0'	8,381'	40	N-80	BTC	10	10.5	15	5,750	3,090	916,000
9 5/8		8,405'							1.09	1.35	2.73
Production	0'	9,125'	20	P-110	BTC	14	14.5	16	12,360	11,080	641,000
5 1/2		13,297'							2.16	1.86	2.41

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Assumptions:

Surface casing MASP = (frac gradient + 1.0 ppg) - (gas gradient)
Intermediate casing MASP = (reservoir pressure) - (gas gradient)
Production casing MASP = (reservoir pressure) - (gas gradient)
Intermediate collapse calculations assume 50% evacuated
Maximum intermediate csg collapse load assumes loss of mud to a fluid level of 4,191'
Intermediate csg run from surface to 8,381' and will not experience full evacuation
Production csg run from surface to TD will isolate intermediate csg from production loads
Production csg withstands burst and collapse loads for anticipated production conditions
Surface & production collapse calcs assume fully evacuated casing w/ a gas gradient
All tension calculations assume air weight of casing
Gas gradient = 0.1 psi/ft

All casing shall be new.
All casing strings shall have a minimum of 1 centralizer on each of the bottom 3 joints.

5. Cement

Job	Hole Size	Fill	Slurry Description	ft^3 / sacks	OH excess	Weight (ppg)	Yield (ft^3/sk)
Conductor	24	60'	Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake	66 / 57	15%	15.8	1.17
Surface Lead	17 1/2	500'	Varicem (Type III) + .125 lbs/sk Cello Flakes	399 / 120	15%	11.0	3.33
Surface Tail	17 1/2	1,000'	Varicem (Type III) + .125 lbs/sk Cello Flakes	799 / 420	15%	13.0	1.9
Intermediate Lead	12 1/4	6,644'	HLC Premium - 35% Poz/65% Glass G + 10% bentonite	2393 / 678	15%	11.0	3.53
Intermediate Tail	12 1/4	1,761'	50/50 Poz/Class G + 1% bentonite	634 / 492	15%	14.0	1.29
Production Lead	8 3/4	0'	HLC Premium - 35% Poz/65% Glass G + 10% bentonite	0 / 0	15%	11.0	3.53
Production Tail	8 3/4	5,892'	50/50 Poz/Class G + 1% bentonite	1712 / 1327	15%	14.0	1.29

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The surface casing will be cemented to surface. In the event that cement does not reach surface during the primary cement job, a remedial job will be performed.

Actual cement volumes for the intermediate casing string will be calculated from an open hole caliper log, plus 15% excess.

The 5.5" production string will be run from surface to TD and cemented to setback. The cement slurries will be adjusted for hole conditions and blend test results. The lateral will be cemented past the setback.

This well will not be perforated or produced outside the legal setbacks

6. Type and Characteristics of Proposed Circulating Medium

Interval	Description
Surface - 1,500'	An air and/or fresh water system will be utilized. If an air rig is used, the blooie line discharge may be less than 100' from the wellbore in order to minimize location size. The blooie line is not equipped with an automatic igniter. The air compressor may be located less than 100' from the well bore due to the low possibility of combustion with the air/dust mixture. Water will be on location to be used as kill fluid, if necessary.

RECEIVED: October 15, 2013

1,500' - 8,405' A water based mud: Hole stability may be improved with additions of KCl or a similar inhibitive substance. In order to control formation pressure the system will be weighted with additions of bentonite, and if conditions warrant, with barite.

Anticipated maximum mud weight is 10.5 ppg.

8,405' - TD One of two possible mud systems may be used depending on offset well performance on ongoing wells: A water based mud: Hole stability may be improved with additions of KCl or a similar inhibitive substance. In order to control formation pressure the system will be weighted with additions of bentonite, and if conditions warrant, with barite.

-or-

A diesel based OBM system: with an oil to water ratio between 70/30 and 80/20. Emulsifiers and wetting agents will be used to maintain adequate mud properties. A water phase salinity will be maintained in the range of 25% using CaCl (Calcium Chloride). All cuttings will be dried and centrifuged so that they can be easily transferred to a lined cuttings pit with little to no free fluid on them. The cuttings will be mixed with fly ash prior to transportation to a location on Newfield owned surface. Once on Newfield owned surface, the cuttings will be treated with the previously approved FIRMUS process and used as a construction material on future location and/or roads on Newfield owned surface. The cuttings may also be transported to a state approved disposal facility.

Anticipated maximum mud weight is 14.5 ppg.

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7. Logging, Coring, and Testing

Logging: A dual induction, gamma ray, and caliper log will be run from KOP to the base of the surface casing. A compensated neutron/formation density log will be run from TD to the top of the Garden Gulch formation. A cement bond log will be run from KOP to the cement top behind the production casing and or intermediate casing.

Cores: As deemed necessary.

DST: There are no DST's planned for this well.

RECEIVED: October 15, 2013

8. Anticipated Abnormal Pressure or Temperature

Maximum anticipated bottomhole pressure will be approximately equal to total depth (feet) multiplied by a 0.73 psi/ft gradient.

9,125' x 0.73 psi/ft = 6643 psi

No abnormal temperature is expected. No H_2S is expected.

9. Other Aspects

The lateral of this well will target the Uteland Butte member of the Green River formation
After setting 9-5/8" casing, an 8-3/4" vertical hole will be drilled to a kick off point of 8,405'
Directional tools will then be used to build to 87.17 degrees inclination.
The lateral will be drilled to the bottomhole location shown on the plat. A 5-1/2" longstring will be run from surface to TD and cemented in place.

Newfield requests the following variances from Onshore Order #2:

- Variance from Onshoer Order #2, III.E.1
  Refer to Newfield Production Company Standard Operating Practices "Ute Tribal Green River Development Program" paragraph 9.0

If oil based mud (OBM) is used and If Newfield owns the surface rights on the same drilling site at a location where construction is desired, the cuttings may be used for construction by a Firmus® process at that location. Otherwise, after the cuttings have been made safe for transport as described in paragraph 6, they will be transported to another location on which Newfield owns surface rights and there mixed, as part of a Firmus® process, with at least one additional chemical that will convert them to a temporarily uncured cementitious mixture that will be placed and shaped into a temporary desired final structure that will spontaneously harden within seven days after placement to form the desired structure. Samples of the temporary desired final structure may be taken for testing as described below (after the samples have hardened), or samples of the starting pretreated cuttings and mud will be taken during the construction and later mixed in a laboratory, molded, and cured to simulate the final structure as well as reasonably possible. Either these laboratory-made simulations of the final structure or samples of the temporary mixture itself after hardening, will be mechanically tested directly to determine their unconfined compressive strength and their hydraulic conductivity. Leachates of the mechanically tested structures themselves or of finer particles made by crushing and size-grading of the mechanically tested structures themselves to a specified particle size range will be analyzed, according to specified methods, for their contents of arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, zinc, benzene, total petroleum hydrocarbons (TPH), and chlorides, and the pH of these leachates will also be measured. The results of all these tests will be reported by Newfield to UDOGM at intervals as requested, along with the latitude and longitude (or other comparable location data) of the site of the useful constructions built.

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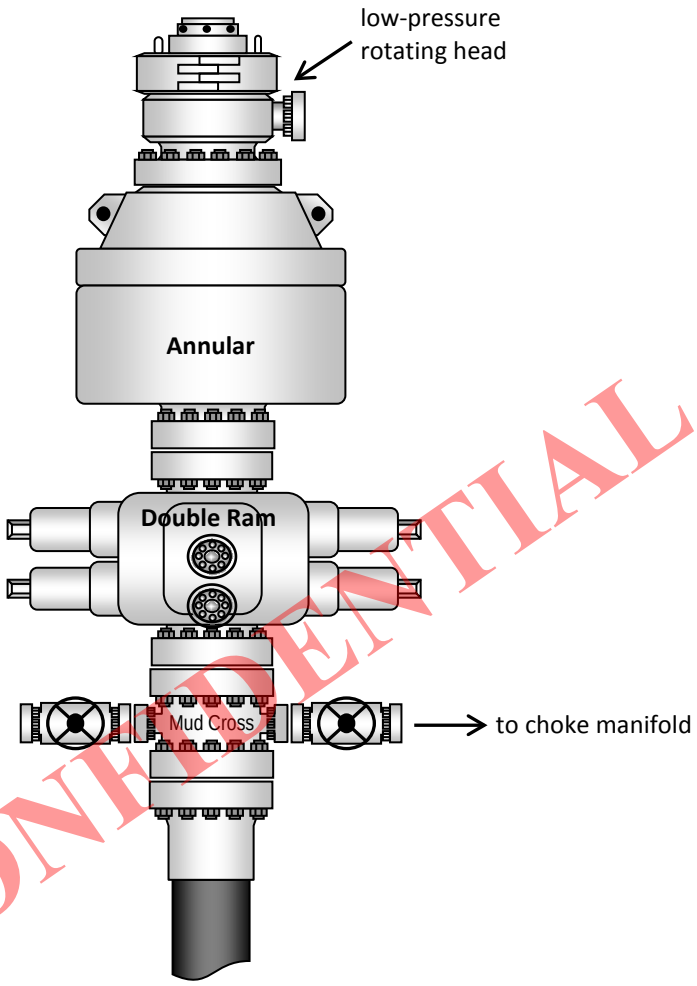
RECEIVED: October 15, 2013

Typical 5M BOP stack configuration



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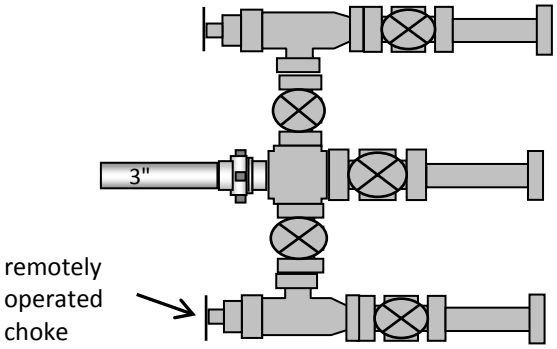
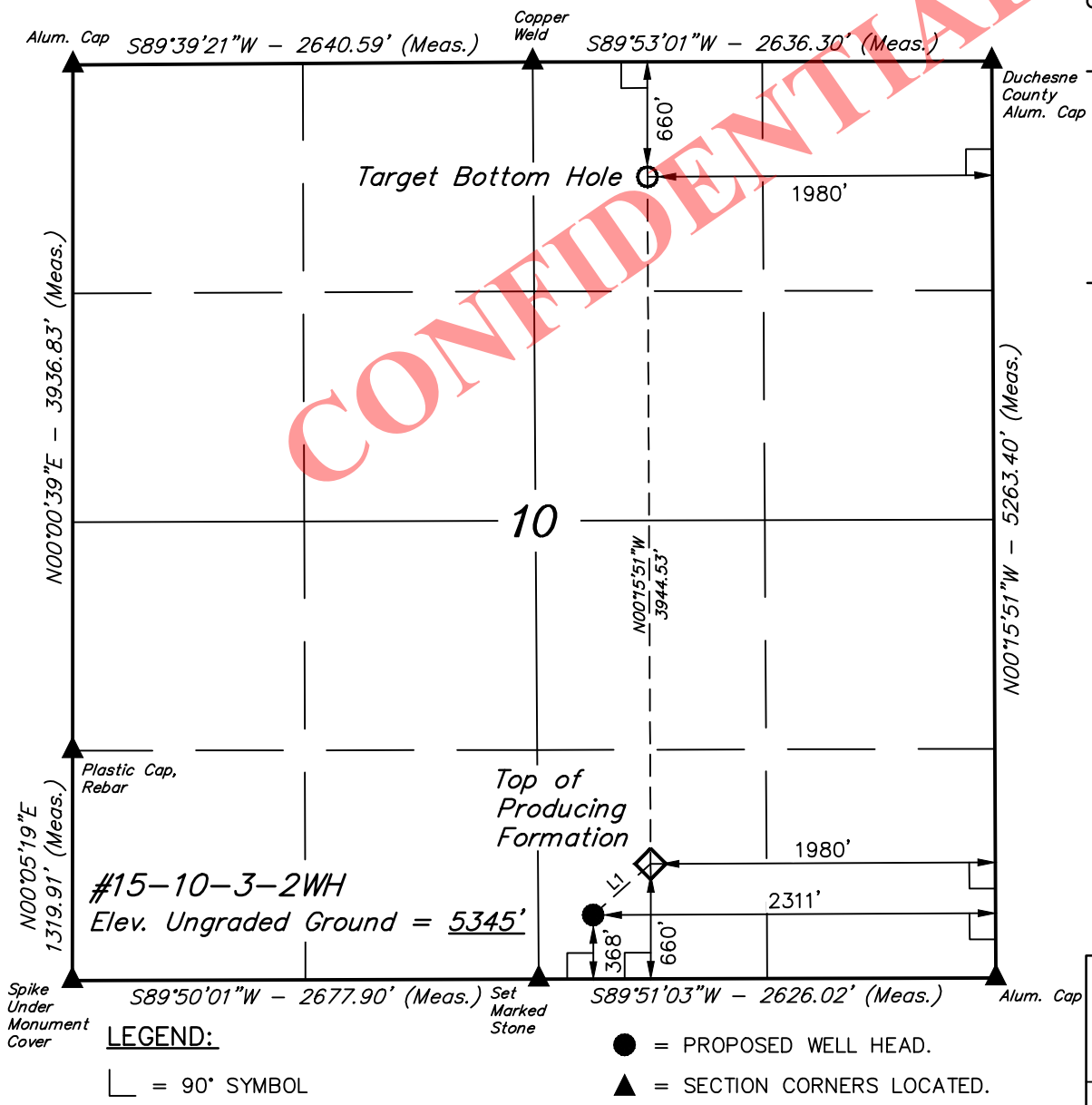
Typical 5M choke manifold configuration



RECEIVED: October 15, 2013

API Well Number: 43013522960000

T3S, R2W, U.S.B.&M.



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LEGEND:

└ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

NEWFIELD EXPLORATION COMPANY

Well location, #15-10-3-2WH, located as shown in the SW 1/4 SE 1/4 of Section 10, T3S, R2W, U.S.B.&M., Duchesne County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION LOCATED AT THE SOUTHEAST CORNER OF SECTION 20, T3S, R2W, U.S.B.&M. TAKEN FROM THE MYTON, QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5148 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N48°23'23"E	441.29'

N

1000' 500' 0' 1000'

SCALE

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR REGISTRATION NO. 161319 STATE OF UTAH

REVISED: 05-02-13

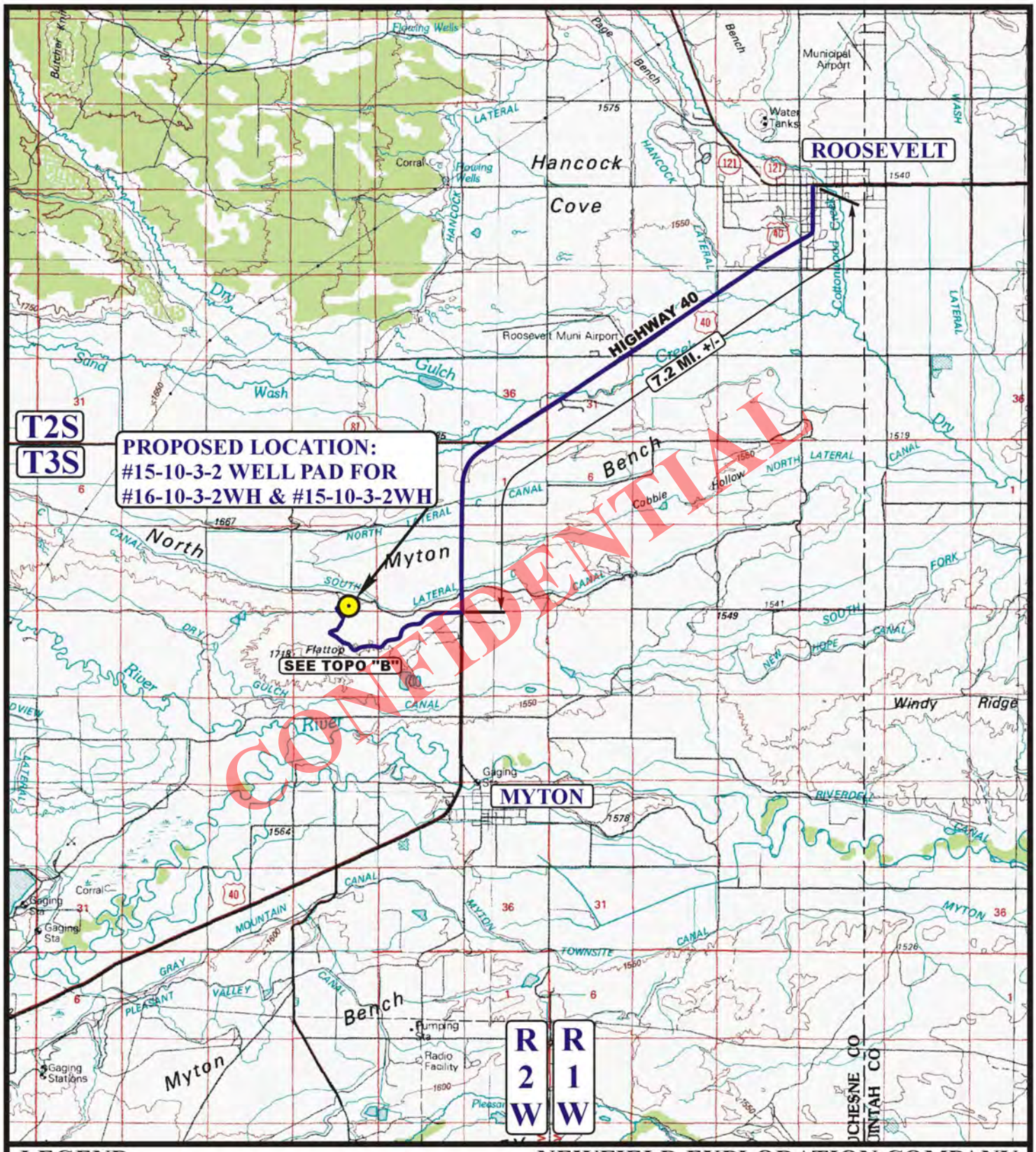
NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (TOP OF PRODUCING FORMATION)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°14'31.86" (40.242183)	LATITUDE = 40°13'52.89" (40.231358)	LATITUDE = 40°13'49.99" (40.230553)
LONGITUDE = 110°05'36.30" (110.093417)	LONGITUDE = 110°05'36.08" (110.093356)	LONGITUDE = 110°05'40.34" (110.094539)
NAD 27 (TARGET BOTTOM HOLE)	**NAD 27 (TOP OF PRODUCING FORMATION)**	**NAD 27 (SURFACE LOCATION)**
LATITUDE = 40°14'32.00" (40.242222)	LATITUDE = 40°13'53.03" (40.231397)	LATITUDE = 40°13'50.14" (40.230594)
LONGITUDE = 110°05'33.76" (110.092711)	LONGITUDE = 110°05'33.54" (110.092650)	LONGITUDE = 110°05'37.80" (110.093833)

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST – VERNAL, UTAH 84078
(435) 789-1017

SCALE	DATE SURVEYED:	DATE DRAWN:
1" = 1000'	11-13-12	11-19-12
PARTY: M.A. A.H. S.F.	REFERENCES: G.L.O. PLAT	
WEATHER: COLD	FILE: NEWFIELD EXPLORATION COMPANY	

RECEIVED: July 12, 2013

API Well Number: 43013522960000



LEGEND:

PROPOSED LOCATION

N

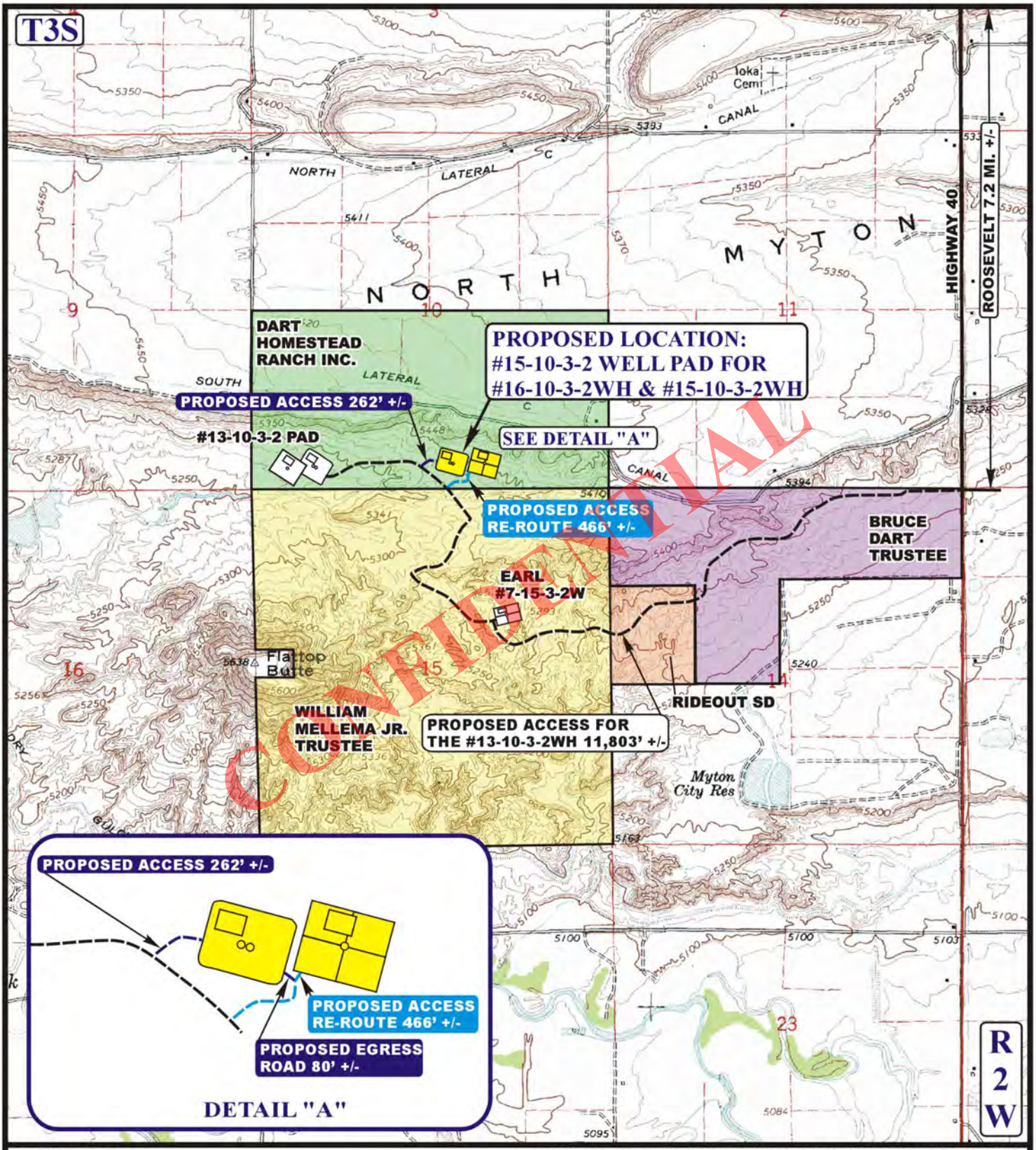
NEWFIELD EXPLORATION COMPANY

#15-10-3-2 WELL PAD FOR
#16-10-3-2WH & #15-10-3-2WH
SECTION 10, T3S, R2W, U.S.B.&M.
SW 1/4 SE 1/4

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

ACCESS ROAD MAP	11 MONTH	15 DAY	12 YEAR	A TOPO
SCALE: 1:100,000	DRAWN BY: C.I.	REV: 07-10-13 S.O.		

API Well Number: 43013522960000



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LEGEND:

EXISTING ROAD

PROPOSED ACCESS ROAD

N

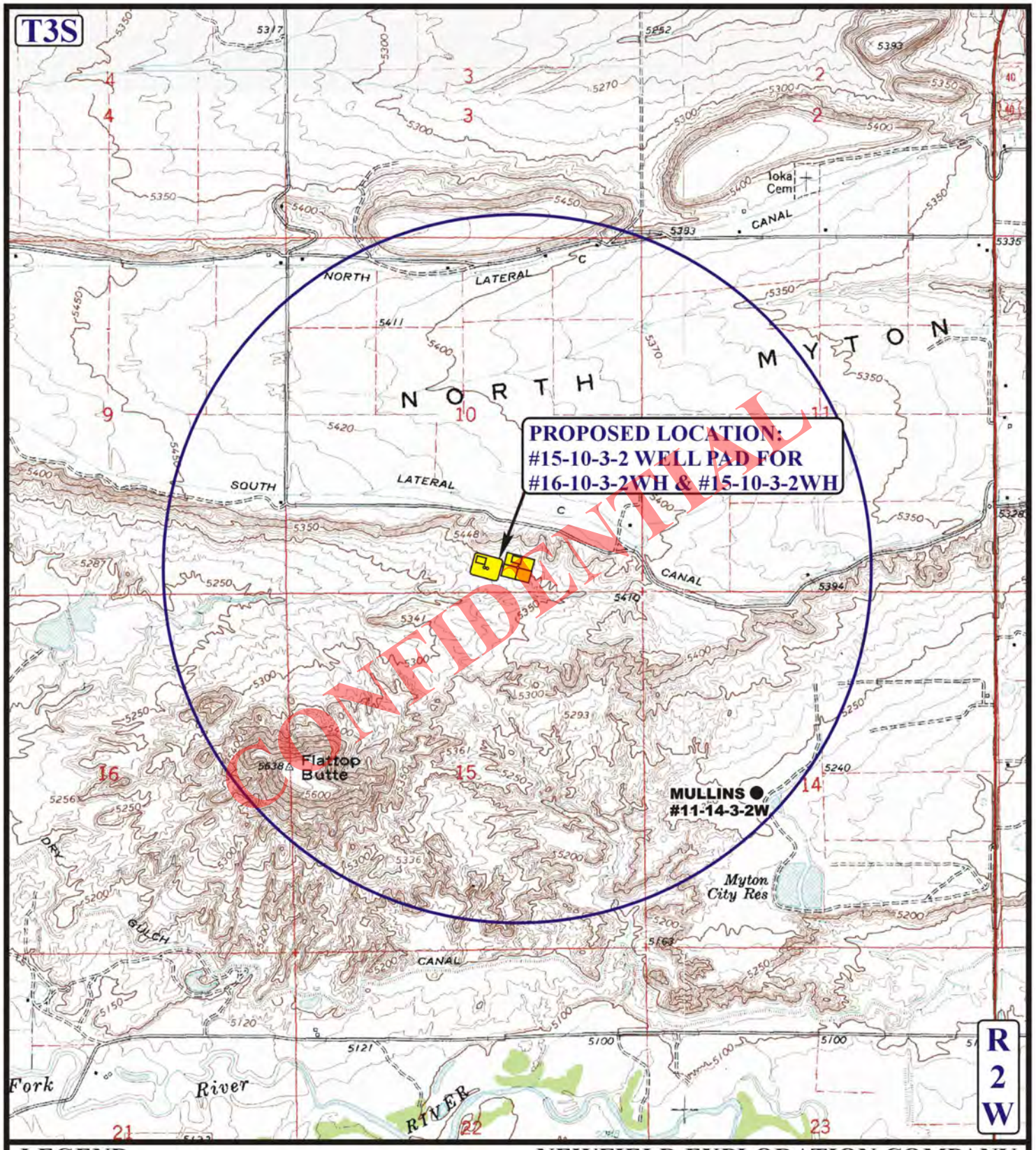
NEWFIELD EXPLORATION COMPANY

#15-10-3-2 WELL PAD FOR
#16-10-3-2WH & #15-10-3-2WH
SECTION 10, T3S, R2W, U.S.B.&M.
SW 1/4 SE 1/4

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

ACCESS ROAD MAP	11 MONTH	15 DAY	12 YEAR	B TOPO
SCALE: 1" = 2000'	DRAWN BY: C.I.	REV: 07-10-13 S.O.		

API Well Number: 43013522960000



LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

N

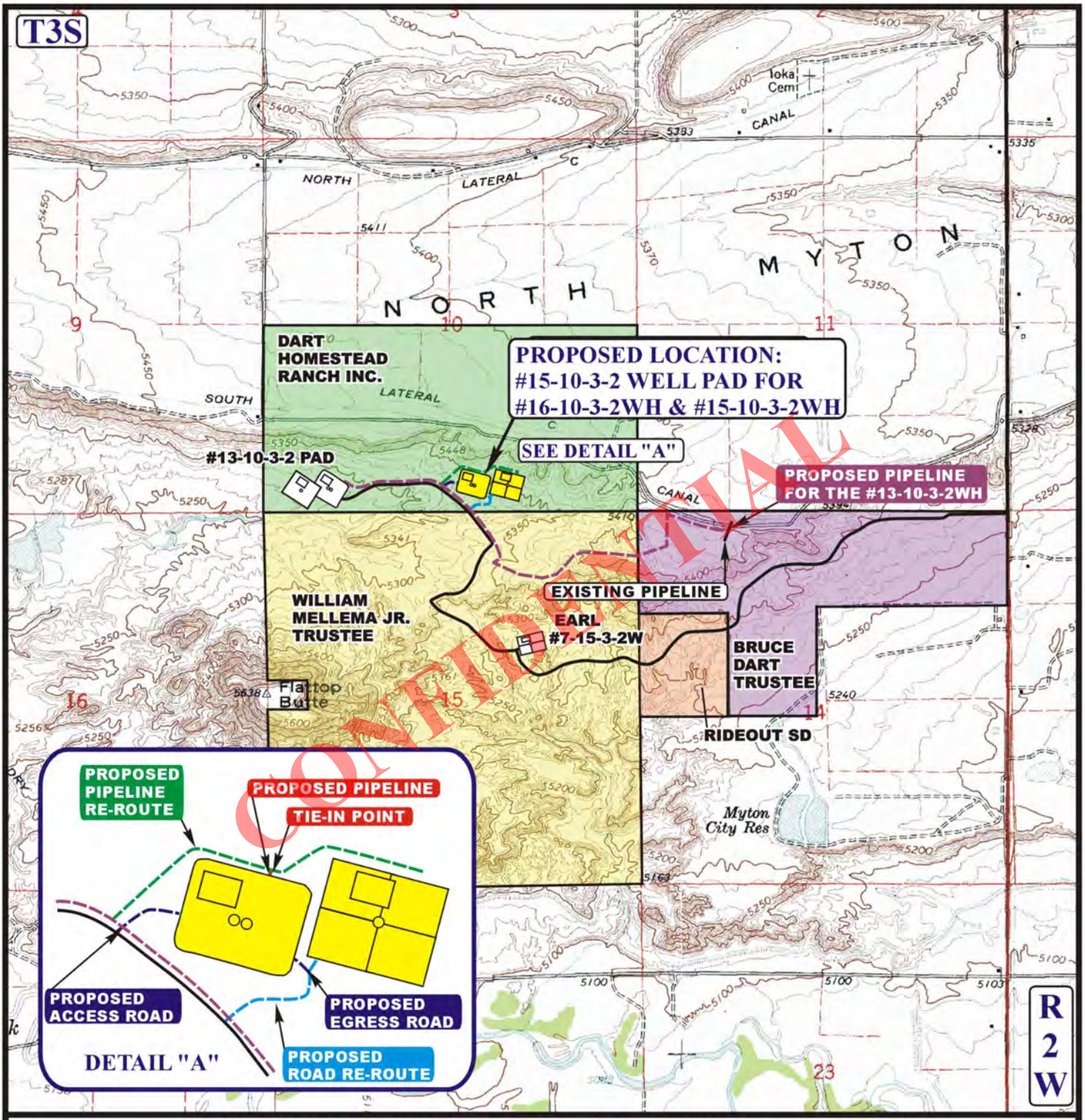
NEWFIELD EXPLORATION COMPANY

#15-10-3-2 WELL PAD FOR
#16-10-3-2WH & #15-10-3-2WH
SECTION 10, T3S, R2W, U.S.B.&M.
SW 1/4 SE 1/4

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	11 MONTH	15 DAY	12 YEAR	C TOPO
SCALE: 1" = 2000'	DRAWN BY: C.I.	REV: 07-10-13 S.O.		

API Well Number: 43013522960000



APPROXIMATE TOTAL PIPELINE DISTANCE = 25' +/-

APPROXIMATE TOTAL PIPELINE RE-ROUTE DISTANCE = 1,353' +/-

LEGEND:

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE
- PROPOSED PIPELINE (SERVICING OTHER WELLS)
- PROPOSED PIPELINE RE-ROUTE

N

NEWFIELD EXPLORATION COMPANY

#15-10-3-2 WELL PAD FOR
#16-10-3-2WH & #15-10-3-2WH
SECTION 10, T3S, R2W, U.S.B.&M.
SW 1/4 SE 1/4

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	11 MONTH	15 DAY	12 YEAR	D TOPO
SCALE: 1" = 2000'	DRAWN BY: C.I.	REV: 07-10-13 S.O.		

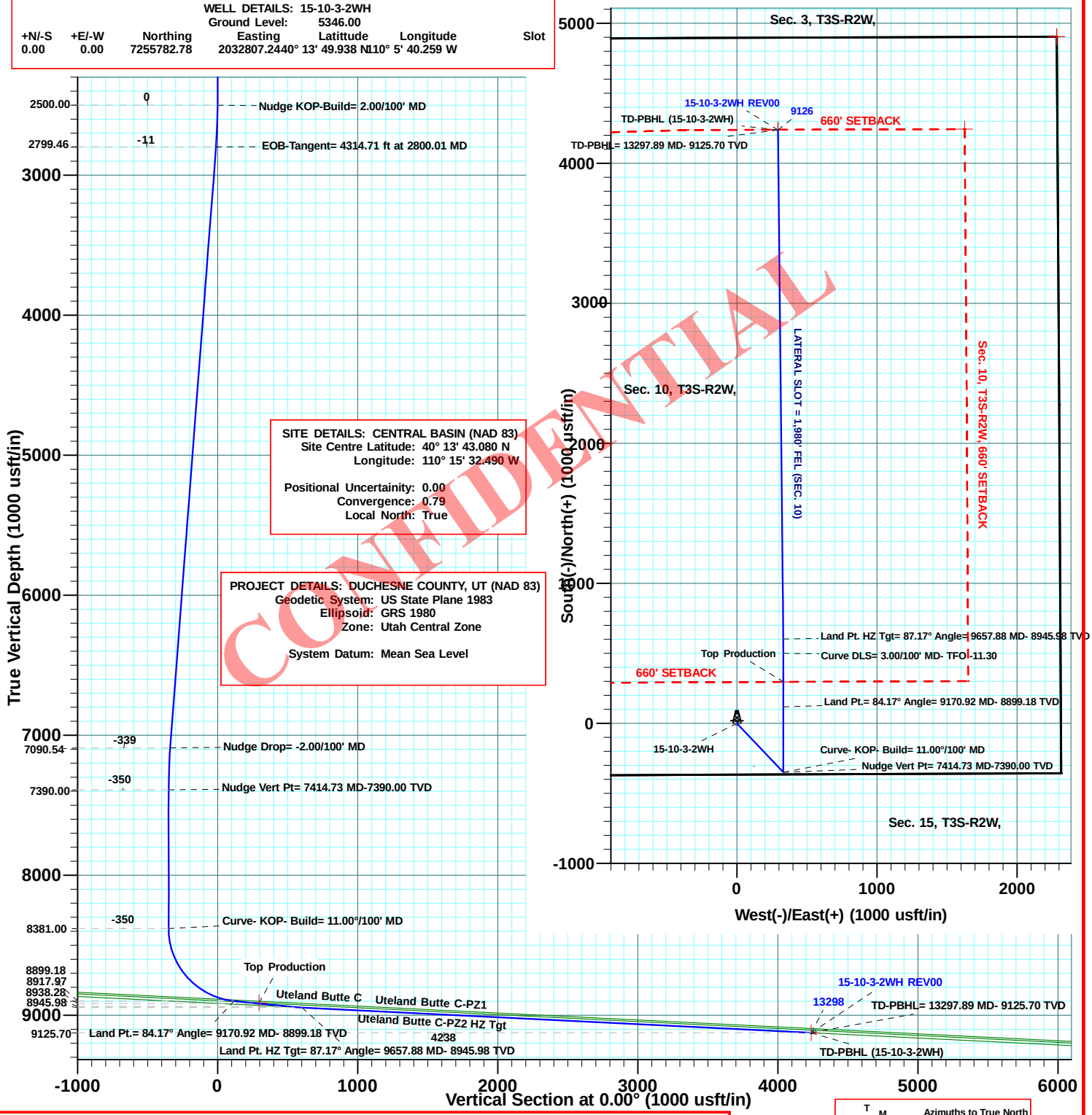
LEAM Drilling Systems, Inc.
FOR
NEWFIELD EXPLORATION ROCKY MOUNTAINS
WELL: 15-10-3-2WH (PLAN: REV00)
DUCHESNE COUNTY, UTAH
RIG NAME: RIG (KB= 18')
MAY 23, 2013 -- WELL PLAN PLOT

LEAM Drilling Systems LLC

NEWFIELD ROCKY MOUNTAINS

WELL DETAILS: 15-10-3-2WH
Ground Level: 5346.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	7255782.78	2032807.24	40° 13' 49.938 N	110° 5' 40.259 W	



SITE DETAILS: CENTRAL BASIN (NAD 83)
Site Centre Latitude: 40° 13' 43.080 N
Longitude: 110° 15' 32.490 W

Positional Uncertainity: 0.00
Convergence: 0.79
Local North: True

PROJECT DETAILS: DUCHESNE COUNTY, UT (NAD 83)
Geodetic System: US State Plane 1983
Ellipsoid: GRS 1980
Zone: Utah Central Zone

System Datum: Mean Sea Level

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SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	
2800.01	6.00	136.51	2799.46	-11.39	10.80	2.00	136.51	-11.39	
7114.72	6.00	136.51	7090.54	-338.61	321.20	0.00	0.00	-338.61	
7414.73	0.00	0.00	7390.00	-350.00	332.00	2.00	180.00	-350.00	
8405.73	0.00	0.00	8381.00	-350.00	332.00	0.00	0.00	-350.00	
9170.92	84.17	0.00	8899.18	117.96	332.00	11.00	0.00	117.96	
9355.92	84.17	0.00	8917.97	302.01	332.00	0.00	0.00	302.01	
9555.92	84.17	0.00	8938.28	500.97	332.00	0.00	0.00	500.97	
9657.88	87.17	359.40	8945.98	602.64	331.47	3.00	-11.30	602.64	
13297.89	87.17	359.40	9125.70	4238.00	293.40	0.00	0.00	4238.00	

Azimuths to True North
Magnetic North: 11.11°

Magnetic Field
Strength: 52176.4snT
Dip Angle: 65.89°
Date: 5/23/2013
Model: IGRF2010

Plan: 15-10-3-2WH REV00 (15-10-3-2WH/15-10-3-2WH)
Created By: Lynn Hulin Date: 16:54, May 23 2013

Checked: _____ Date: _____
Reviewed: _____ Date: _____
Approved: _____ Date: _____

RECEIVED: September 25, 2013

LEAM Drilling Systems LLC

Planning Report

LEAM Drilling Systems LLC

Database:	EDM 5000.1 Lynn Db	**Local Co-ordinate Reference:**	Well 15-10-3-2WH
Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	**TVD Reference:**	WELL(5346'+18'= 5,364' MSL) @ 5364.00usft (RIG (KB= 18'))
Project:	DUCHESNE COUNTY, UT (NAD 83)	**MD Reference:**	WELL(5346'+18'= 5,364' MSL) @ 5364.00usft (RIG (KB= 18'))
Site:	CENTRAL BASIN (NAD 83)	**North Reference:**	True
Well:	15-10-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	15-10-3-2WH		
Design:	15-10-3-2WH REV00		

Project DUCHESNE COUNTY, UT (NAD 83),

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site CENTRAL BASIN (NAD 83)

Site Position:		**Northing:**	7,254,409.48 usft	**Latitude:**	40° 13' 43.080 N
From:	Lat/Long	**Easting:**	1,986,891.62 usft	**Longitude:**	110° 15' 32.490 W
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.79 °

Well 15-10-3-2WH, Sec. 10, T3S-R2W,

Well Position	**+N/-S**	736.14 usft	**Northing:**	7,255,782.78 usft	**Latitude:**	40° 13' 49.938 N
	+E/-W	45,930.26 usft	**Easting:**	2,032,807.24 usft	**Longitude:**	110° 5' 40.259 W
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	5,364.00 usft	**Ground Level:**	5,346.00 usft

Wellbore 15-10-3-2WH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/23/2013	11.11	65.89	52,176

Design 15-10-3-2WH REV00

Audit Notes:

Version:	REV00	**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	0.00

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,800.01	6.00	136.51	2,799.46	-11.39	10.80	2.00	2.00	0.00	136.51	
7,114.72	6.00	136.51	7,090.54	-338.61	321.20	0.00	0.00	0.00	0.00	
7,414.73	0.00	0.00	7,390.00	-350.00	332.00	2.00	-2.00	0.00	180.00	
8,405.73	0.00	0.00	8,381.00	-350.00	332.00	0.00	0.00	0.00	0.00	
9,170.92	84.17	0.00	8,899.18	117.96	332.00	11.00	11.00	0.00	0.00	
9,355.92	84.17	0.00	8,917.97	302.01	332.00	0.00	0.00	0.00	0.00	
9,555.92	84.17	0.00	8,938.28	500.97	332.00	0.00	0.00	0.00	0.00	
9,657.88	87.17	359.40	8,945.98	602.64	331.47	3.00	2.94	-0.59	-11.30	
13,297.89	87.17	359.40	9,125.70	4,238.00	293.40	0.00	0.00	0.00	0.00	TD-PBHL (15-10-3-

CONFIDENTIAL

RECEIVED: September 25, 2013

LEAM Drilling Systems LLC

Planning Report

LEAM Drilling Systems LLC

Database:	EDM 5000.1 Lynn Db	**Local Co-ordinate Reference:**	Well 15-10-3-2WH
Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	**TVD Reference:**	WELL(5346'+18'= 5,364' MSL) @ 5364.00usft (RIG (KB= 18'))
Project:	DUCHESNE COUNTY, UT (NAD 83)	**MD Reference:**	WELL(5346'+18'= 5,364' MSL) @ 5364.00usft (RIG (KB= 18'))
Site:	CENTRAL BASIN (NAD 83)	**North Reference:**	True
Well:	15-10-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	15-10-3-2WH		
Design:	15-10-3-2WH REV00		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
Nudge KOP-Build= 2.00/100' MD									
2,600.00	2.00	136.51	2,599.98	-1.27	1.20	-1.27	2.00	2.00	0.00
2,700.00	4.00	136.51	2,699.84	-5.06	4.80	-5.06	2.00	2.00	0.00
2,800.01	6.00	136.51	2,799.46	-11.39	10.80	-11.39	2.00	2.00	0.00
EOB-Tangent= 4314.71 ft at 2800.01 MD									
2,900.00	6.00	136.51	2,898.90	-18.97	17.99	-18.97	0.00	0.00	0.00
3,000.00	6.00	136.51	2,998.36	-26.55	25.19	-26.55	0.00	0.00	0.00
3,100.00	6.00	136.51	3,097.81	-34.14	32.38	-34.14	0.00	0.00	0.00
3,200.00	6.00	136.51	3,197.26	-41.72	39.58	-41.72	0.00	0.00	0.00
3,300.00	6.00	136.51	3,296.71	-49.31	46.77	-49.31	0.00	0.00	0.00
3,400.00	6.00	136.51	3,396.16	-56.89	53.96	-56.89	0.00	0.00	0.00
3,500.00	6.00	136.51	3,495.62	-64.47	61.16	-64.47	0.00	0.00	0.00
3,600.00	6.00	136.51	3,595.07	-72.06	68.35	-72.06	0.00	0.00	0.00
3,700.00	6.00	136.51	3,694.52	-79.64	75.55	-79.64	0.00	0.00	0.00
3,800.00	6.00	136.51	3,793.97	-87.23	82.74	-87.23	0.00	0.00	0.00
3,900.00	6.00	136.51	3,893.43	-94.81	89.93	-94.81	0.00	0.00	0.00
4,000.00	6.00	136.51	3,992.88	-102.39	97.13	-102.39	0.00	0.00	0.00
4,100.00	6.00	136.51	4,092.33	-109.98	104.32	-109.98	0.00	0.00	0.00
4,200.00	6.00	136.51	4,191.78	-117.56	111.52	-117.56	0.00	0.00	0.00
4,300.00	6.00	136.51	4,291.23	-125.15	118.71	-125.15	0.00	0.00	0.00
4,400.00	6.00	136.51	4,390.69	-132.73	125.90	-132.73	0.00	0.00	0.00
4,500.00	6.00	136.51	4,490.14	-140.31	133.10	-140.31	0.00	0.00	0.00
4,600.00	6.00	136.51	4,589.59	-147.90	140.29	-147.90	0.00	0.00	0.00
4,700.00	6.00	136.51	4,689.04	-155.48	147.49	-155.48	0.00	0.00	0.00
4,800.00	6.00	136.51	4,788.50	-163.07	154.68	-163.07	0.00	0.00	0.00
4,900.00	6.00	136.51	4,887.95	-170.65	161.87	-170.65	0.00	0.00	0.00

CONFIDENTIAL

RECEIVED: September 25, 2013

LEAM Drilling Systems LLC

Planning Report

LEAM Drilling Systems LLC

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Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	**TVD Reference:**	WELL(5346'+18'= 5,364' MSL) @ 5364.00usft (RIG (KB= 18'))
Project:	DUCHESNE COUNTY, UT (NAD 83)	**MD Reference:**	WELL(5346'+18'= 5,364' MSL) @ 5364.00usft (RIG (KB= 18'))
Site:	CENTRAL BASIN (NAD 83)	**North Reference:**	True
Well:	15-10-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	15-10-3-2WH		
Design:	15-10-3-2WH REV00		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,000.00	6.00	136.51	4,987.40	-178.23	169.07	-178.23	0.00	0.00	0.00
5,100.00	6.00	136.51	5,086.85	-185.82	176.26	-185.82	0.00	0.00	0.00
5,200.00	6.00	136.51	5,186.30	-193.40	183.45	-193.40	0.00	0.00	0.00
5,300.00	6.00	136.51	5,285.76	-200.99	190.65	-200.99	0.00	0.00	0.00
5,400.00	6.00	136.51	5,385.21	-208.57	197.84	-208.57	0.00	0.00	0.00
5,500.00	6.00	136.51	5,484.66	-216.15	205.04	-216.15	0.00	0.00	0.00
5,600.00	6.00	136.51	5,584.11	-223.74	212.23	-223.74	0.00	0.00	0.00
5,700.00	6.00	136.51	5,683.56	-231.32	219.42	-231.32	0.00	0.00	0.00
5,800.00	6.00	136.51	5,783.02	-238.91	226.62	-238.91	0.00	0.00	0.00
5,900.00	6.00	136.51	5,882.47	-246.49	233.81	-246.49	0.00	0.00	0.00
6,000.00	6.00	136.51	5,981.92	-254.07	241.01	-254.07	0.00	0.00	0.00
6,100.00	6.00	136.51	6,081.37	-261.66	248.20	-261.66	0.00	0.00	0.00
6,200.00	6.00	136.51	6,180.83	-269.24	255.39	-269.24	0.00	0.00	0.00
6,300.00	6.00	136.51	6,280.28	-276.82	262.59	-276.82	0.00	0.00	0.00
6,400.00	6.00	136.51	6,379.73	-284.41	269.78	-284.41	0.00	0.00	0.00
6,500.00	6.00	136.51	6,479.18	-291.99	276.98	-291.99	0.00	0.00	0.00
6,600.00	6.00	136.51	6,578.63	-299.58	284.17	-299.58	0.00	0.00	0.00
6,700.00	6.00	136.51	6,678.09	-307.16	291.36	-307.16	0.00	0.00	0.00
6,800.00	6.00	136.51	6,777.54	-314.74	298.56	-314.74	0.00	0.00	0.00
6,900.00	6.00	136.51	6,876.99	-322.33	305.75	-322.33	0.00	0.00	0.00
7,000.00	6.00	136.51	6,976.44	-329.91	312.95	-329.91	0.00	0.00	0.00
7,100.00	6.00	136.51	7,075.89	-337.50	320.14	-337.50	0.00	0.00	0.00
7,114.72	6.00	136.51	7,090.54	-338.61	321.20	-338.61	0.00	0.00	0.00
Nudge Drop= -2.00/100' MD									
7,200.00	4.29	136.51	7,175.47	-344.16	326.46	-344.16	2.00	-2.00	0.00
7,300.00	2.29	136.51	7,275.30	-348.33	330.42	-348.33	2.00	-2.00	0.00
7,400.00	0.29	136.51	7,375.27	-349.97	331.97	-349.97	2.00	-2.00	0.00
7,414.73	0.00	0.00	7,390.00	-350.00	332.00	-350.00	2.00	-2.00	0.00
Nudge Vert Pt= 7414.73 MD-7390.00 TVD									
7,500.00	0.00	0.00	7,475.27	-350.00	332.00	-350.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,575.27	-350.00	332.00	-350.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,675.27	-350.00	332.00	-350.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,775.27	-350.00	332.00	-350.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,875.27	-350.00	332.00	-350.00	0.00	0.00	0.00
8,000.00	0.00	0.00	7,975.27	-350.00	332.00	-350.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,075.27	-350.00	332.00	-350.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,175.27	-350.00	332.00	-350.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,275.27	-350.00	332.00	-350.00	0.00	0.00	0.00
8,405.73	0.00	0.00	8,381.00	-350.00	332.00	-350.00	0.00	0.00	0.00
Curve- KOP- Build= 11.00°/100' MD									
8,450.00	4.87	0.00	8,425.21	-348.12	332.00	-348.12	11.00	11.00	0.00
8,500.00	10.37	0.00	8,474.75	-341.49	332.00	-341.49	11.00	11.00	0.00
8,550.00	15.87	0.00	8,523.43	-330.15	332.00	-330.15	11.00	11.00	0.00
8,600.00	21.37	0.00	8,570.79	-314.19	332.00	-314.19	11.00	11.00	0.00
8,650.00	26.87	0.00	8,616.41	-293.77	332.00	-293.77	11.00	11.00	0.00
8,700.00	32.37	0.00	8,659.86	-269.06	332.00	-269.06	11.00	11.00	0.00
8,750.00	37.87	0.00	8,700.74	-240.31	332.00	-240.31	11.00	11.00	0.00
8,800.00	43.37	0.00	8,738.68	-207.77	332.00	-207.77	11.00	11.00	0.00
8,850.00	48.87	0.00	8,773.33	-171.75	332.00	-171.75	11.00	11.00	0.00
8,900.00	54.37	0.00	8,804.36	-132.57	332.00	-132.57	11.00	11.00	0.00
8,950.00	59.87	0.00	8,831.49	-90.59	332.00	-90.59	11.00	11.00	0.00

CONFIDENTIAL

RECEIVED: September 25, 2013

LEAM Drilling Systems LLC

Planning Report

LEAM Drilling Systems LLC

Database:	EDM 5000.1 Lynn Db	**Local Co-ordinate Reference:**	Well 15-10-3-2WH
Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	**TVD Reference:**	WELL(5346'+18'= 5,364' MSL) @ 5364.00usft (RIG (KB= 18'))
Project:	DUCHESNE COUNTY, UT (NAD 83)	**MD Reference:**	WELL(5346'+18'= 5,364' MSL) @ 5364.00usft (RIG (KB= 18'))
Site:	CENTRAL BASIN (NAD 83)	**North Reference:**	True
Well:	15-10-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	15-10-3-2WH		
Design:	15-10-3-2WH REV00		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,000.00	65.37	0.00	8,854.48	-46.21	332.00	-46.21	11.00	11.00	0.00
9,050.00	70.87	0.00	8,873.10	0.17	332.00	0.17	11.00	11.00	0.00
9,100.00	76.37	0.00	8,887.20	48.12	332.00	48.12	11.00	11.00	0.00
9,106.49	77.08	0.00	8,888.69	54.44	332.00	54.44	11.00	11.00	0.00
Uteland Butte C									
9,150.00	81.87	0.00	8,896.64	97.20	332.00	97.20	11.00	11.00	0.00
9,170.92	84.17	0.00	8,899.18	117.96	332.00	117.96	11.00	11.00	0.00
Land Pt.= 84.17° Angle= 9170.92 MD- 8899.18 TVD									
9,200.00	84.17	0.00	8,902.13	146.90	332.00	146.90	0.00	0.00	0.00
9,259.75	84.17	0.00	8,908.20	206.33	332.00	206.33	0.00	0.00	0.00
Uteland Butte C-PZ1									
9,300.00	84.17	0.00	8,912.29	246.38	332.00	246.38	0.00	0.00	0.00
9,355.92	84.17	0.00	8,917.97	302.01	332.00	302.01	0.00	0.00	0.00
Tangent= 200 ft at 9355.92 MD									
9,400.00	84.17	0.00	8,922.45	345.86	332.00	345.86	0.00	0.00	0.00
9,500.00	84.17	0.00	8,932.60	445.34	332.00	445.34	0.00	0.00	0.00
9,555.92	84.17	0.00	8,938.28	500.97	332.00	500.97	0.00	0.00	0.00
Curve DLS= 3.00/100' MD- TFO -11.30									
9,600.00	85.47	359.74	8,942.27	544.87	331.90	544.87	3.00	2.94	-0.59
9,630.58	86.37	359.56	8,944.44	575.38	331.71	575.38	3.00	2.94	-0.59
Uteland Butte C-PZ2 HZ Tgt									
9,657.88	87.17	359.40	8,945.98	602.64	331.47	602.64	3.00	2.94	-0.59
Land Pt. HZ Tgt= 87.17° Angle= 9657.88 MD- 8945.98 TVD									
9,700.00	87.17	359.40	8,948.06	644.70	331.03	644.70	0.00	0.00	0.00
9,800.00	87.17	359.40	8,953.00	744.57	329.98	744.57	0.00	0.00	0.00
9,900.00	87.17	359.40	8,957.94	844.44	328.93	844.44	0.00	0.00	0.00
10,000.00	87.17	359.40	8,962.87	944.31	327.89	944.31	0.00	0.00	0.00
10,100.00	87.17	359.40	8,967.81	1,044.19	326.84	1,044.19	0.00	0.00	0.00
10,200.00	87.17	359.40	8,972.75	1,144.06	325.80	1,144.06	0.00	0.00	0.00
10,300.00	87.17	359.40	8,977.68	1,243.93	324.75	1,243.93	0.00	0.00	0.00
10,400.00	87.17	359.40	8,982.62	1,343.80	323.70	1,343.80	0.00	0.00	0.00
10,500.00	87.17	359.40	8,987.56	1,443.68	322.66	1,443.68	0.00	0.00	0.00
10,600.00	87.17	359.40	8,992.50	1,543.55	321.61	1,543.55	0.00	0.00	0.00
10,700.00	87.17	359.40	8,997.43	1,643.42	320.57	1,643.42	0.00	0.00	0.00
10,800.00	87.17	359.40	9,002.37	1,743.29	319.52	1,743.29	0.00	0.00	0.00
10,900.00	87.17	359.40	9,007.31	1,843.17	318.48	1,843.17	0.00	0.00	0.00
11,000.00	87.17	359.40	9,012.25	1,943.04	317.43	1,943.04	0.00	0.00	0.00
11,100.00	87.17	359.40	9,017.18	2,042.91	316.38	2,042.91	0.00	0.00	0.00
11,200.00	87.17	359.40	9,022.12	2,142.79	315.34	2,142.79	0.00	0.00	0.00
11,300.00	87.17	359.40	9,027.06	2,242.66	314.29	2,242.66	0.00	0.00	0.00
11,400.00	87.17	359.40	9,031.99	2,342.53	313.25	2,342.53	0.00	0.00	0.00
11,500.00	87.17	359.40	9,036.93	2,442.40	312.20	2,442.40	0.00	0.00	0.00
11,600.00	87.17	359.40	9,041.87	2,542.28	311.15	2,542.28	0.00	0.00	0.00
11,700.00	87.17	359.40	9,046.81	2,642.15	310.11	2,642.15	0.00	0.00	0.00
11,800.00	87.17	359.40	9,051.74	2,742.02	309.06	2,742.02	0.00	0.00	0.00
11,900.00	87.17	359.40	9,056.68	2,841.89	308.02	2,841.89	0.00	0.00	0.00
12,000.00	87.17	359.40	9,061.62	2,941.77	306.97	2,941.77	0.00	0.00	0.00
12,100.00	87.17	359.40	9,066.56	3,041.64	305.92	3,041.64	0.00	0.00	0.00
12,200.00	87.17	359.40	9,071.49	3,141.51	304.88	3,141.51	0.00	0.00	0.00
12,300.00	87.17	359.40	9,076.43	3,241.38	303.83	3,241.38	0.00	0.00	0.00
12,400.00	87.17	359.40	9,081.37	3,341.26	302.79	3,341.26	0.00	0.00	0.00

CONFIDENTIAL

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LEAM Drilling Systems LLC

Planning Report

LEAM Drilling Systems LLC

Database:	EDM 5000.1 Lynn Db	**Local Co-ordinate Reference:**	Well 15-10-3-2WH
Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	**TVD Reference:**	WELL(5346'+18'= 5,364' MSL) @ 5364.00usft (RIG (KB= 18'))
Project:	DUCHESNE COUNTY, UT (NAD 83)	**MD Reference:**	WELL(5346'+18'= 5,364' MSL) @ 5364.00usft (RIG (KB= 18'))
Site:	CENTRAL BASIN (NAD 83)	**North Reference:**	True
Well:	15-10-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	15-10-3-2WH		
Design:	15-10-3-2WH REV00		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,500.00	87.17	359.40	9,086.30	3,441.13	301.74	3,441.13	0.00	0.00	0.00
12,600.00	87.17	359.40	9,091.24	3,541.00	300.70	3,541.00	0.00	0.00	0.00
12,700.00	87.17	359.40	9,096.18	3,640.87	299.65	3,640.87	0.00	0.00	0.00
12,800.00	87.17	359.40	9,101.12	3,740.75	298.60	3,740.75	0.00	0.00	0.00
12,900.00	87.17	359.40	9,106.05	3,840.62	297.56	3,840.62	0.00	0.00	0.00
13,000.00	87.17	359.40	9,110.99	3,940.49	296.51	3,940.49	0.00	0.00	0.00
13,100.00	87.17	359.40	9,115.93	4,040.36	295.47	4,040.36	0.00	0.00	0.00
13,200.00	87.17	359.40	9,120.87	4,140.24	294.42	4,140.24	0.00	0.00	0.00
13,297.89	87.17	359.40	9,125.70	4,238.00	293.40	4,238.00	0.00	0.00	0.00
TD-PBHL= 13297.89 MD- 9125.70 TVD									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Sec. 10, T3S-R2W,	0.00	0.00	-16.00	4,904.88	2,283.48	7,260,722.93	2,035,013.37	40° 14' 38.410 N	110° 5' 10.810 W
- plan misses target center by 5410.40usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Polygon									
Point 1			-16.00	0.00	0.00	7,260,722.93	2,035,013.37		
Point 2			-16.00	-2,629.83	18.26	7,258,093.71	2,035,072.95		
Point 3			-16.00	-5,261.67	31.87	7,255,462.41	2,035,127.91		
Point 4			-16.00	-5,272.68	-2,593.37	7,255,410.15	2,032,503.16		
Point 5			-16.00	-5,284.51	-5,269.81	7,255,356.27	2,029,827.24		
Point 6			-16.00	-28.86	-5,274.97	7,260,611.19	2,029,739.50		
Point 7			-16.00	-9.00	-2,635.56	7,260,672.52	2,032,378.27		
Point 8			-16.00	0.00	0.00	7,260,722.93	2,035,013.37		
Sec. 10, T3S-R2W, 6(	0.00	0.00	-16.00	4,244.08	1,626.77	7,260,051.89	2,034,367.12	40° 14' 31.880 N	110° 5' 19.280 W
- plan misses target center by 4545.20usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Polygon									
Point 1			-16.00	0.00	0.00	7,260,051.89	2,034,367.12		
Point 2			-16.00	-1,972.11	14.61	7,258,080.26	2,034,412.71		
Point 3			-16.00	-3,942.21	24.57	7,256,110.55	2,034,453.63		
Point 4			-16.00	-3,950.94	-1,940.63	7,256,070.95	2,032,488.81		
Point 5			-16.00	-3,959.59	-3,955.47	7,256,030.64	2,030,474.35		
Point 6			-16.00	-61.87	-3,959.17	7,259,927.82	2,030,409.41		
Point 7			-16.00	-6.72	-1,976.52	7,260,014.12	2,032,390.95		
Point 8			-16.00	0.00	0.00	7,260,051.89	2,034,367.12		
Top Production	0.00	0.00	8,912.00	296.00	335.55	7,256,084.01	2,033,138.09	40° 13' 52.863 N	110° 5' 35.933 W
- plan misses target center by 6.40usft at 9349.34usft MD (8917.30 TVD, 295.46 N, 332.00 E)									
- Point									
TD-PBHL (15-10-3-2V	0.00	0.00	9,126.00	4,238.00	292.65	7,260,024.85	2,033,033.26	40° 14' 31.820 N	110° 5' 36.485 W
- plan misses target center by 0.80usft at 13297.89usft MD (9125.70 TVD, 4238.00 N, 293.40 E)									
- Point									

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Planning Report

LEAM Drilling Systems LLC

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Project:	DUCHESNE COUNTY, UT (NAD 83)	**MD Reference:**	WELL(5346'+18'= 5,364' MSL) @ 5364.00usft (RIG (KB= 18'))
Site:	CENTRAL BASIN (NAD 83)	**North Reference:**	True
Well:	15-10-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	15-10-3-2WH		
Design:	15-10-3-2WH REV00		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
9,106.49	8,888.69	Uteland Butte C		2.83	0.00
9,259.75	8,908.20	Uteland Butte C-PZ1		2.83	0.00
9,630.58	8,944.44	Uteland Butte C-PZ2 HZ Tgt		2.83	0.00

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
2,500.00	2,500.00	0.00	0.00	Nudge KOP-Build= 2.00/100' MD
2,800.01	2,799.46	-11.39	10.80	EOB-Tangent= 4314.71 ft at 2800.01 MD
7,114.72	7,090.54	-338.61	321.20	Nudge Drop= -2.00/100' MD
7,414.73	7,390.00	-350.00	332.00	Nudge Vert Pt= 7414.73 MD-7390.00 TVD
8,405.73	8,381.00	-350.00	332.00	Curve- KOP- Build= 11.00°/100' MD
9,170.92	8,899.18	117.96	332.00	Land Pt.= 84.17° Angle= 9170.92 MD- 8899.18 TVD
9,355.92	8,917.97	302.01	332.00	Tangent= 200 ft at 9355.92 MD
9,555.92	8,938.28	500.97	332.00	Curve DLS= 3.00/100' MD- TFO -11.30
9,657.88	8,945.98	602.64	331.47	Land Pt. HZ Tgt= 87.17° Angle= 9657.88 MD- 8945.98 TVD
13,297.89	9,125.70	4,238.00	293.40	TD-PBHL= 13297.89 MD- 9125.70 TVD

CONFIDENTIAL

RECEIVED: September 25, 2013

AFFIDAVIT OF EASEMENT, RIGHT-OF-WAY AND SURFACE USE AGREEMENT

Peter Burns personally appeared before me, being duly sworn, deposes and with respect to State of Utah R649-3-34.7 says:

1. My name is Peter Burns. I am a Landman for Newfield Production Company, whose address is 1001 17th Street, Suite 2000, Denver, CO 80202 ("Newfield").

2. Newfield is the Operator of the proposed Dart 15-10-3-2WH well with a surface location to be positioned in the SWSE of Section 10, Township 3 South, Range 2 West (the "Drillsite Location"), and a bottom hole location to be positioned in the NWNE of Section 10, Township 3 South, Range 2 West, Duchesne County, Utah. The surface owner of the Drillsite Location is Dart Homestead Ranch, whose address is Route 2, Box 2044, Roosevelt, UT 84066 ("Surface Owner").

3. Newfield and the Surface Owner have agreed upon an Easement, Right-of-Way and Surface Use Agreement dated February 16, 2013 covering the Drillsite Location and access to the Drillsite Location.

FURTHER AFFIANT SAYETH NOT.

Peter Burns

ACKNOWLEDGEMENT

STATE OF COLORADO §
§
COUNTY OF DENVER §

Before me, a Notary Public, in and for the State, on this 2nd day of July, 2013, personally appeared Peter Burns, to me known to be the identical person who executed the foregoing instrument, and acknowledged to me that he executed the same as his own free and voluntary act and deed for the uses and purposes therein set forth.

CHRISTIAN CABRIN SIZEMORE
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20134036083
MY COMMISSION EXPIRES JUNE 10, 2017

NOTARY PUBLIC

My Commission Expires:

CONFIDENTIAL

AFFIDAVIT OF EASEMENT AND RIGHT-OF-WAY

Peter Burns personally appeared before me, being duly sworn, deposes and with respect to State of Utah R649-3-34.7 says:

1. My name is Peter Burns. I am a Landman for Newfield Production Company, whose address is 1001 17th Street, Suite 2000, Denver, CO 80202 ("Newfield").

2. Newfield is the Operator of the proposed Dart 15-10-3-2WH, Ranch 16-10-3-2WH, D-15-22-3-2WH and 3-15-22-3-2WH wells with surface locations to be positioned in the S/2S/2 of Section 10, Township 3 South, Range 2 West, Duchesne County, Utah (the "Drillsite Location"). The surface owner of a portion of the access road is Mack Rideout, Personal Representative of the Estate of Sherman D. Rideout, whose address is 3634 Capstone Ave., Salt Lake City, UT 84121 ("Surface Owner").

3. Newfield and the Surface Owner have agreed upon an Easement and Right-of-Way dated December 10, 2012 covering the SWNW of Section 14, Township 3 South, Range 2 West, Duchesne County, Utah.

CONFIDENTIAL

FURTHER AFFIANT SAYETH NOT.

Peter Burns

ACKNOWLEDGEMENT

STATE OF COLORADO §
§
COUNTY OF DENVER §

Before me, a Notary Public, in and for the State, on this 3rd day of July, 2013, personally appeared Peter Burns, to me known to be the identical person who executed the foregoing instrument, and acknowledged to me that he executed the same as his own free and voluntary act and deed for the uses and purposes therein set forth.

NOTARY PUBLIC

My Commission Expires:

ALAN D. WILD NOTARY PUBLIC STATE OF COLORADO MY COMMISSION EXPIRES 2/17/2015

AFFIDAVIT OF EASEMENT AND RIGHT-OF-WAY

Peter Burns personally appeared before me, being duly sworn, deposes and with respect to State of Utah R649-3-34.7 says:

1. My name is Peter Burns. I am a Landman for Newfield Production Company, whose address is 1001 17th Street, Suite 2000, Denver, CO 80202 ("Newfield").

2. Newfield is the Operator of the proposed Dart 15-10-3-2WH, Ranch 16-10-3-2WH, D-15-22-3-2WH and 3-15-22-3-2WH wells with surface locations to be positioned in the S/2S/2 of Section 10, Township 3 South, Range 2 West, Duchesne County, Utah (the "Drillsite Location"). The surface owner of a portion of the access road and pipeline route is William Mellema, Jr. - Trustee, whose address is P.O. Box 1198, Parker, CO 80134-1198 ("Surface Owner").

3. Newfield and the Surface Owner have agreed upon an Easement and Right-of-Way dated September 20, 2012 covering the N/2 and SE/4SW/4 of Section 15, Township 3 South, Range 2 West, Duchesne County, Utah.

CONFIDENTIAL

FURTHER AFFIANT SAYETH NOT.

Peter Burns

ACKNOWLEDGEMENT

STATE OF COLORADO §
§
COUNTY OF DENVER §

Before me, a Notary Public, in and for the State, on this 3rd day of July 2013, personally appeared Peter Burns, to me known to be the identical person who executed the foregoing instrument, and acknowledged to me that he executed the same as his own free and voluntary act and deed for the uses and purposes therein set forth.

NOTARY PUBLIC

My Commission Expires:

ALAN D. WILD NOTARY PUBLIC STATE OF COLORADO MY COMMISSION EXPIRES 2/17/2015

AFFIDAVIT OF EASEMENT AND RIGHT-OF-WAY

Peter Burns personally appeared before me, being duly sworn, deposes and with respect to State of Utah R649-3-34.7 says:

1. My name is Peter Burns. I am a Landman for Newfield Production Company, whose address is 1001 17th Street, Suite 2000, Denver, CO 80202 ("Newfield").

2. Newfield is the Operator of the proposed Dart 15-10-3-2WH, Ranch 16-10-3-2WH, D-15-22-3-2WH and 3-15-22-3-2WH wells with surface locations to be positioned in the S/2S/2 of Section 10, Township 3 South, Range 2 West, Duchesne County, Utah (the "Drillsite Location"). The surface owner of a portion of the access road is Bruce Dart, Trustee, whose address is Route 2, Box 2044, Roosevelt, UT 84066 ("Surface Owner").

3. Newfield and the Surface Owner have agreed upon an Easement and Right-of-Way dated February 16, 2013 covering the E/2NW and N/2NE of Section 14, Township 3 South, Range 2 West, Duchesne County, Utah.

FURTHER AFFIANT SAYETH NOT.

Peter Burns

CONFIDENTIAL

ACKNOWLEDGEMENT

STATE OF COLORADO §
§
COUNTY OF DENVER §

Before me, a Notary Public, in and for the State, on this 3rd day of July 2013, personally appeared Peter Burns, to me known to be the identical person who executed the foregoing instrument, and acknowledged to me that he executed the same as his own free and voluntary act and deed for the uses and purposes therein set forth.

NOTARY PUBLIC

My Commission Expires:

NEWFIELD

July 9, 2013

State of Utah
Division of Oil, Gas & Mining
ATTN: Brad Hill
PO Box 145801
Salt Lake City, UT 84114

Newfield Exploration Company
1001 17th Street | Suite 2000
Denver, Colorado 80202
PH 303-893-0102 | FAX 303-893-0103

RE: 15-10-3-2WH
Township 3 South, Range 2 West, Section 10
Duchesne County, Utah

Dear Mr. Hill,

Newfield Production Company ("Newfield") proposes to drill the 15-10-3-2WH from a surface location of 368' FSL and 2311' FEL of Section 10, T3S R2W, to a bottom hole location of 660' FNL and 1980' FEL of Section 10, T3S R2W.

The 15-10-3-2WH is covered by Order No. 139-90, which requires no portion of the producing interval of the horizontal lateral be closer than 660' from the northern or southern section boundaries and no closer than 660' from the eastern or western section boundaries.

In compliance with the above referenced Order, the top of the uppermost producing zone of the 15-10-3-2WH is 660' FSL and 1980' FEL of 3S 2W Section 10. Newfield shall case and cement the 15-10-3-2WH wellbore from the surface location to the point where the wellbore reaches the legal setback, and the wellbore will only be completed within the legal setback. In the event a future recompletion outside of this setback is proposed, Newfield shall attempt to acquire consent from all the owners in Section 15 of T3S R2W, and shall file the appropriate application with the State. The bottom hole location of the 15-10-3-2WH is 660' FNL and 1980' FEL of 3S 2W Section 10, which is within the legal setback.

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Newfield has also obtained authorization from the surface owner of the drilling location, as is evidenced by the Affidavit of Easement, Right-of-Way and Surface Use Agreement attached to the APD. Newfield and its partners are the leasehold owners of the minerals underlying the surface location and all that portion of the wellbore of the 15-10-3-2WH lying outside the drilling unit.

Based on Newfield's compliance with the requirements of Order No. 139-90, Newfield respectfully requests the approval of our APD for the 15-10-3-2WH.

If you have any questions or require further information, please do not hesitate to contact the undersigned at 303-382-4466 or by email at rnmiller@newfield.com. Your consideration of this matter is greatly appreciated.

Sincerely,

Robert N. Miller II
Landman

API Well Number: 43013522960000

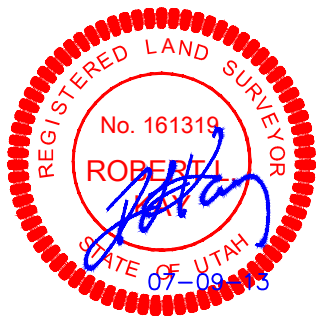
NEWFIELD EXPLORATION COMPANY

LOCATION LAYOUT FOR

#15-10-3-2 WELL PAD FOR
#16-10-3-2WH & #15-10-3-2WH
SECTION 10, T3S, R2W, U.S.B.&M.
SW 1/4 SE 1/4

FIGURE #1

SCALE: 1" = 60'
DATE: 05-02-13
DRAWN BY: S.F.
REVISED: 05-28-13
REVISED: 07-09-13



Winds
Prevailing
Pit
Previously Approved
#2-15-22-3-2WH Well Pad
Previously Approved
Surface Use Area
for the #2-15-22-3-2WH
Well Pad
Proposed Access Road Re-Route
Top of
Producing
Formation
N00°15'51"W - 3943.78'
(To Target Bottom Hole)
Target
Bottom
Hole
Proposed
Egress Road
F-8.1'
El. 37.9'
C-14.7'
El. 60.7'
185'
(To Top of Producing Formation)
N80°14'56"E - 1703.48'
F-1.4'
El. 44.6'
Sta. 4+30
Round Corners
as Needed
NOTE:
Earthwork Calculations Require a
Fill @ the Location Stakes
For Balance. All Fill is to be
Compacted to a Minimum of 95%
of the Maximum Dry Density
Obtained by AASHTO Method t-99.
Top of
Producing
Formation
Approx.
Top of
Cut Slope
N00°15'51"W - 3944.53'
(To Target Bottom Hole)
N48°23'23"E - 441.29'
(To Top of Producing Formation)
Cut/Fill
Transition Line
Topsoil Stockpile
Target
Bottom
Hole
C-15.8'
El. 61.8'
120'
65'
30'
#15-10
F-1.4'
El. 44.6'
150'
Sta. 2+00
#16-10
F-2.3'
El. 43.7'
F-12.3'
El. 33.7'
35'
60'
100'
CUTTINGS PIT
(2' Berm AND 8' Deep
10' Total Depth)
El. 54.7'
C-16.7'
(Btm. Pit)
C-4.0'
El. 50.0'
200'
Sta. 1+00
230'
El. 51.4'
C-13.4'
(Btm. Pit)
F-0.1'
El. 45.9'
F-6.5'
El. 39.5'
Sta. 0+00
C-7.6'
El. 53.6'
F-11.7'
El. 34.3'
Cuttings Pit Backfill
Pit Topsoil
Approx.
Toe of
Fill Slope
Total Pit Capacity
W/2' of Freeboard
= 6,080 Bbls.±
Total Pit Volume
= 1,740 Cu. Yds
Proposed Surface Use
Area Expansion
Proposed Access Road
Proposed Pipeline for the
#13-10-3-2 Well Pad
Proposed Access Road for
the #13-10-3-2 Well Pad
5362
5364
5360
5358
5356
5354
5352
5350
5348
5346
5344
5342
5340
5338
5336
5334
5332
5330
5328
5326
5324
5372
5370
5368
5366

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Elev. Ungraded Ground At #16-10-3-2WH Loc. Stake = 5343.7'
FINISHED GRADE ELEV. AT #16-10-3-2WH LOC. STAKE = 5346.0'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

RECEIVED: July 12, 2013

1" = 40'
X-Section Scale
1" = 100'

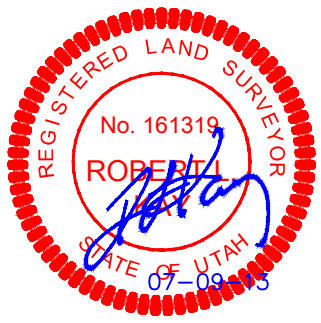
DATE: 05-02-13
DRAWN BY: S.F.
REVISED: 05-28-13
REVISED: 07-09-13

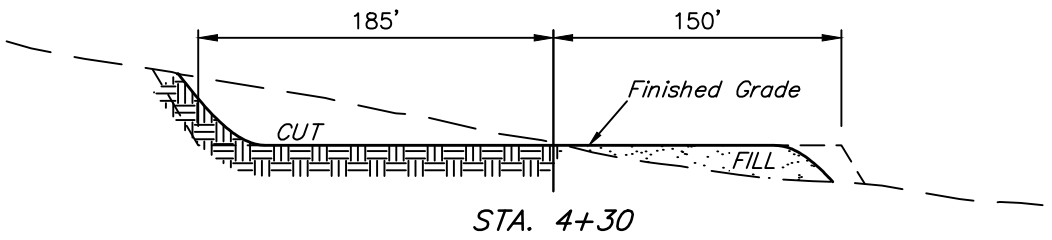
NEWFIELD EXPLORATION COMPANY

TYPICAL CROSS SECTIONS FOR

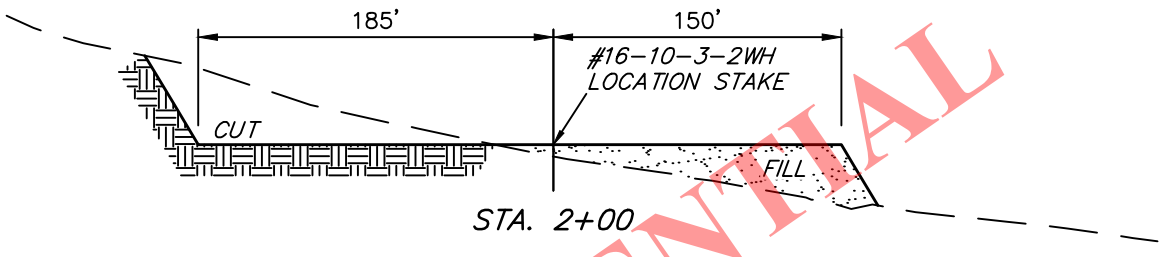
#15-10-3-2 WELL PAD FOR
#16-10-3-2WH & #15-10-3-2WH
SECTION 10, T3S, R2W, U.S.B.&M.
SW 1/4 SE 1/4

FIGURE #2

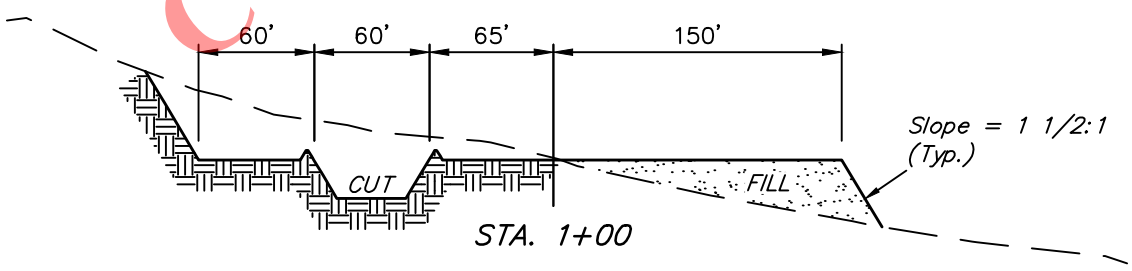




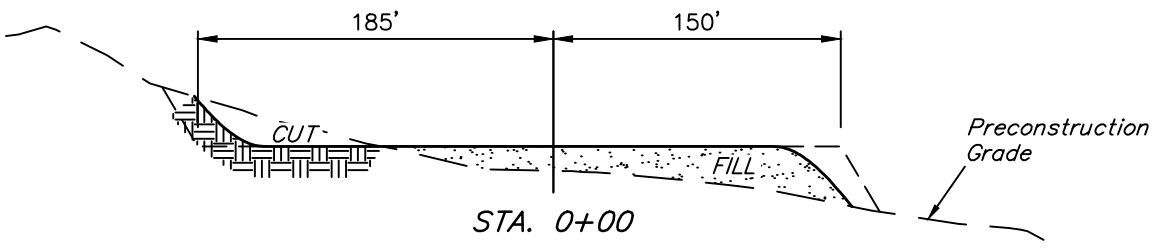
STA. 4+30



STA. 2+00



STA. 1+00



STA. 0+00

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* NOTE:
FILL QUANTITY INCLUDES
5% FOR COMPACTION

APPROXIMATE ACREAGE

ORIGINAL PROPOSED WELL
SITE DISTURBANCE = ± 5.702 ACRES
NEW (ADDITIONAL TO ORIGINAL) PROPOSED
EXPANSION WELL SITE DISTURBANCE = ± 5.058 ACRES
ACCESS ROAD DISTURBANCE = ± 0.427 ACRES
PIPELINE DISTURBANCE = ± 0.204 ACRES
TOTAL = ± 11.391 ACRES

APPROXIMATE YARDAGES

(6") Topsoil Stripping	=	3,100 Cu. Yds.
Remaining Location	=	19,880 Cu. Yds.
TOTAL CUT	=	22,980 CU. YDS.
FILL	=	19,010 CU. YDS.

EXCESS MATERIAL	=	3,970 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	3,970 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	=	0 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

RECEIVED: July 12, 2013

API Well Number: 43013522960000

NEWFIELD EXPLORATION COMPANY

TYPICAL RIG LAYOUT FOR

#15-10-3-2 WELL PAD FOR
#16-10-3-2WH & #15-10-3-2WH
SECTION 10, T3S, R2W, U.S.B.&M.
SW 1/4 SE 1/4

FIGURE #3

SCALE: 1" = 60'
DATE: 05-02-13
DRAWN BY: S.F.
REVISED: 07-09-13

REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH
07-09-13

CONFIDENTIAL

Pit

Previously Approved
#2-15-22-3-2WH Well Pad

Proposed Access Road Re-Route

Proposed
Egress Road

185'

DATA

Round Corners
as Needed

200'

Cut/Fill
Transition Line

230'

CATWALK

PIPE RACKS

DOG HOUSE

RIG

30'

WATER

MUD TANKS

120'

65'

150'

TRAILER

PUMP

TOILET

MUD SHED

FUEL

HOPPER

POWER

TOOLS

FUEL

35'

60'

100'

CUTTINGS PIT
(2' Berm AND 8' Deep
10' Total Depth)

200'

Topsoil Stockpile

STORAGE
TANK

TRASH

Approx.
Top of
Cut Slope

Cuttings Pit Backfill

Pit Topsoil

Approx.
Toe of
Fill Slope

Total Pit Capacity
W/2' of Freeboard
= 6,080 Bbls.±
Total Pit Volume
= 1,740 Cu. Yds

Proposed Access Road

Proposed Pipeline for the
#13-10-3-2 Well Pad

Proposed Access Road for
the #13-10-3-2 Well Pad

5372 5370 5368 5366 5364 5362 5360 5358 5356 5354 5352 5350 5348 5346 5344 5342 5340 5338 5336 5334 5332 5330 5328 5326 5324

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

RECEIVED: July 12, 2013

API Well Number: 43013522960000

NEWFIELD EXPLORATION COMPANY

PRODUCTION FACILITY LAYOUT FOR

#15-10-3-2 WELL PAD FOR
#16-10-3-2WH & #15-10-3-2WH
SECTION 10, T3S, R2W, U.S.B.&M.
SW 1/4 SE 1/4

FIGURE #4

SCALE: 1" = 60'
DATE: 05-02-13
DRAWN BY: S.F.
REVISED: 05-28-13
REVISED: 07-09-13

REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH
07-09-13

Pit

Previously Approved
#2-15-22-3-2WH Well Pad

Access Road Re-Route

Egress Road

400 BBL Tank

500 BBL Tanks

Meter Build.

Anchor (Typ.)

Separator/Heater

Approx. Top of Cut Slope

Cut/Fill Transition Line

#15-10-3-2WH

#16-10-3-2WH

Anchor (Typ.)

Topsoil Stockpile

Approx. Toe of Fill Slope

Proposed Access Road

Pipeline for the #13-10-3-2 Well Pad

Access Road for the #13-10-3-2 Well Pad

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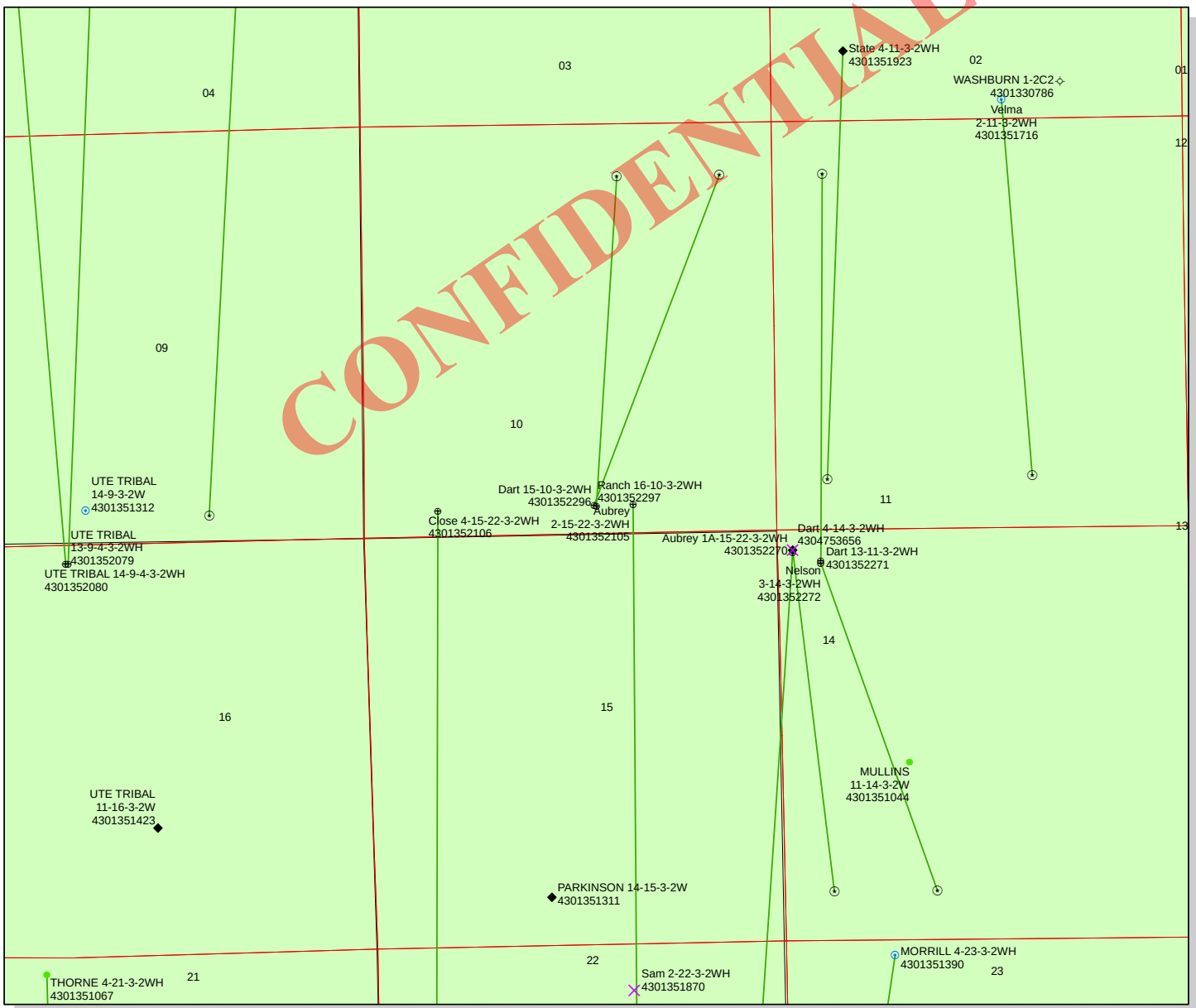
RECLAIMED AREA

APPROXIMATE ACREAGE
UN-RECLAIMED = ± 1.380 ACRES

UINTAH ENGINEERING & LAND SURVEYING
*85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017*

RECEIVED: July 12, 2013

API Well Number: 43013522960000



API Number: 4301352296

Well Name: Dart 15-10-3-2WH

Township T03.0S Range R02.0W Section 10

Meridian: UBM

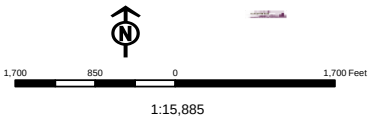
Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:
Map Produced by Diana Mason

Units

STATUS

- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED



1:15,885

RECEIVED: July 17, 2013

API Well Number: 43013522960000

BOPE REVIEW NEWFIELD PRODUCTION COMPANY Dart 15-10-3-2WH 43013522960000

Well Name	NEWFIELD PRODUCTION COMPANY Dart 15-10-3-2WH 4301352296			
String	COND	SURF	I1	PROD
Casing Size(")	20.000	13.375	9.625	5.500
Setting Depth (TVD)	60	1500	8400	9126
Previous Shoe Setting Depth (TVD)	0	60	1500	8400
Max Mud Weight (ppg)	8.3	8.4	10.5	14.5
BOPE Proposed (psi)	0	500	5000	5000
Casing Internal Yield (psi)	1000	2730	5750	12360
Operators Max Anticipated Pressure (psi)	6643			14.0

Calculations	COND String	20.000	"	
Max BHP (psi)	.052*Setting Depth*MW=	26		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	19	NO	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	13	NO	
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	13	NO	
Required Casing/BOPE Test Pressure=		60	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient	

Calculations	SURF String	13.375	"	
Max BHP (psi)	.052*Setting Depth*MW=	655		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	475	YES	diverter
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	325	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	338	NO	OK
Required Casing/BOPE Test Pressure=		1500	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		60	psi *Assumes 1psi/ft frac gradient	

Calculations	I1 String	9.625	"	
Max BHP (psi)	.052*Setting Depth*MW=	4586		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3578	YES	5M BOPE, ram type, 5M annular
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2738	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	3068	NO	OK
Required Casing/BOPE Test Pressure=		4025	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		1500	psi *Assumes 1psi/ft frac gradient	

Calculations	PROD String	5.500	"	
Max BHP (psi)	.052*Setting Depth*MW=	6881		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	5786	NO	5M BOPE, 2 ram preventers, annular
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	4873	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	6721	YES	
Required Casing/BOPE Test Pressure=		5000	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		5750	psi *Assumes 1psi/ft frac gradient	

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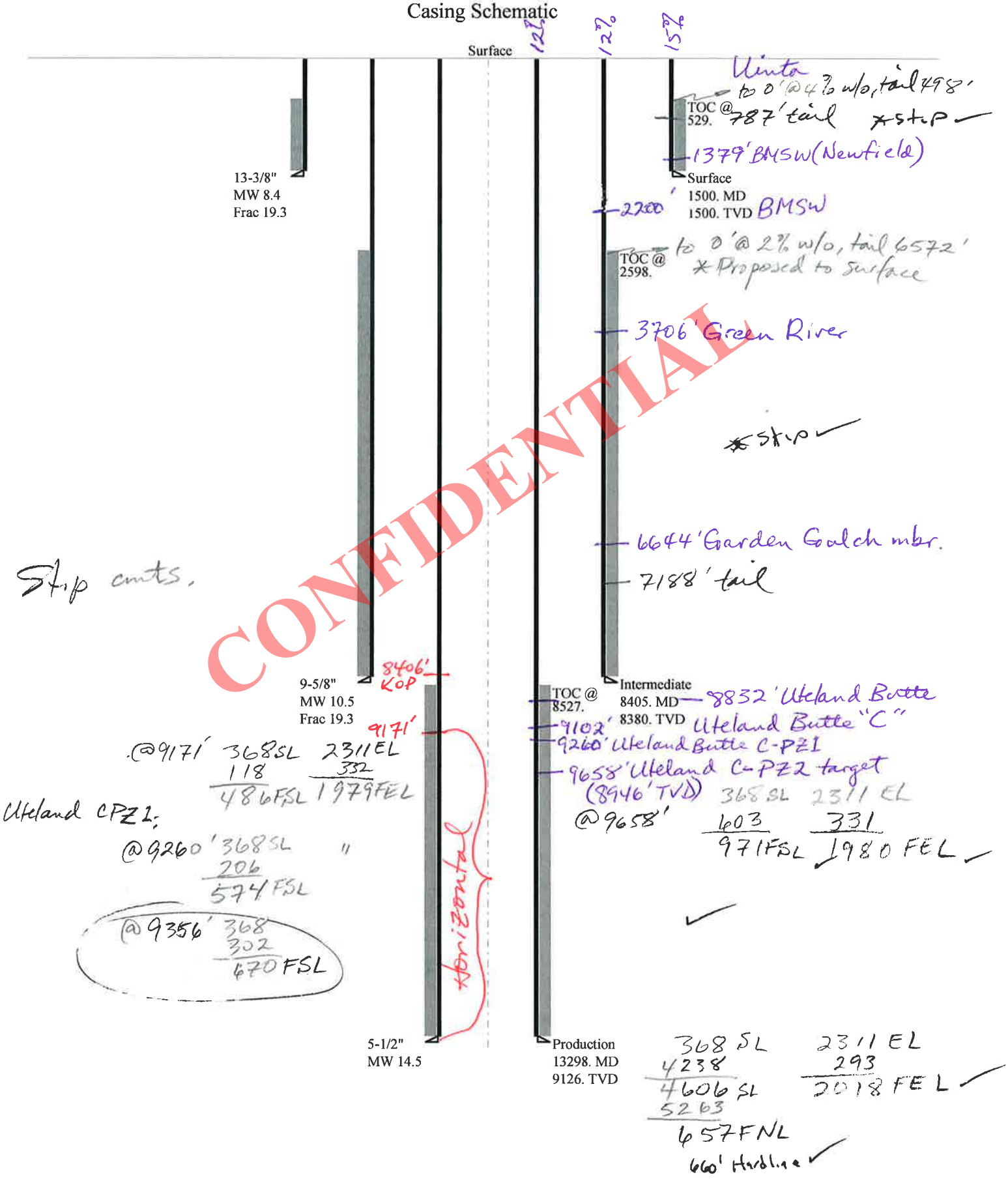
RECEIVED: October 16, 2013

API Well Number: 43013522960000

43013522960000 Dart 15-10-3-2WHrev

Casing Schematic



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API Well Number: 43013522960000

Well name:	**43013522960000 Dart 15-10-3-2WHrev**
Operator:	**NEWFIELD PRODUCTION COMPANY**
String type:	Surface
Project ID:	43-013-52296
Location:	DUCHESNE COUNTY

Design parameters:

Collapse
Mud weight: 8.400 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 1,320 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 1,500 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

Tension:
8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on buoyed weight.
Neutral point: 1,314 ft

Environment:
H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 95 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 529 ft

Non-directional string.

Re subsequent strings:
Next setting depth: 8,400 ft
Next mud weight: 10.500 ppg
Next setting BHP: 4,582 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 1,500 ft
Injection pressure: 1,500 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
1	1500	13.375	54.50	J-55	ST&C	1500	1500	12.49	18611

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	655	1130	1.727	1500	2730	1.82	71.6	514	7.18 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: August 28,2013
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 1500 ft, a mud weight of 8.4 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

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API Well Number: 43013522960000

Well name:	**43013522960000 Dart 15-10-3-2WHrev**
Operator:	**NEWFIELD PRODUCTION COMPANY**
String type:	Intermediate
Project ID:	43-013-52296
Location:	DUCHESNE COUNTY

Design parameters:

Collapse

Mud weight:	10.500 ppg
Internal fluid density:	4.930 ppg

Burst

Max anticipated surface pressure:	4,866 psi
Internal gradient:	0.220 psi/ft
Calculated BHP	6,710 psi
Annular backup:	2.33 ppg

Minimum design factors:

Collapse:

Design factor	1.125

Burst:

Design factor	1.00

Tension:

8 Round STC:	1.80 (J)
8 Round LTC:	1.80 (J)
Buttress:	1.60 (J)
Premium:	1.50 (J)
Body yield:	1.60 (B)

Tension is based on air weight.
Neutral point: 7,095 ft

Environment:

H2S considered?	No
Surface temperature:	74 °F
Bottom hole temperature:	191 °F
Temperature gradient:	1.40 °F/100ft
Minimum section length:	1,000 ft
Cement top:	2,598 ft

Directional well information:

Kick-off point	8406 ft
Departure at shoe:	482 ft
Maximum dogleg:	2 °/100ft
Inclination at shoe:	0 °

Re subsequent strings:

Next setting depth:	9,126 ft
Next mud weight:	14.500 ppg
Next setting BHP:	6,874 psi
Fracture mud wt:	19.250 ppg
Fracture depth:	8,380 ft
Injection pressure:	8,380 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
1	8405	9.625	40.00	N-80	Buttress	8380	8405	8.75	114441

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	2425	3090	1.274	5696	5750	1.01	335.2	916.3	2.73 B

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: September 30,2013
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 8380 ft, a mud weight of 10.5 ppg An internal gradient of .256 psi/ft was used for collapse from TD
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.
Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

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Well name:	**43013522960000 Dart 15-10-3-2WHrev**
Operator:	**NEWFIELD PRODUCTION COMPANY**
String type:	Production
Project ID:	43-013-52296
Location:	DUCHESNE COUNTY

Design parameters:

Collapse
Mud weight: 14.500 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 4,866 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 6,874 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

Tension:
8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Tension is based on air weight.
Neutral point: 7,147 ft

Environment:
H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 202 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Cement top: 8,527 ft

Directional well information:
Kick-off point 8406 ft
Departure at shoe: 4248 ft
Maximum dogleg: 11 °/100ft
Inclination at shoe: 87.17 °

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Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
1	13298	5.5	20.00	P-110	Buttress	9126	13298	4.653	110323

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	6874	11100	1.615	6874	12360	1.80	182.5	641.1	3.51 B

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: September 30,2013
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 9126 ft, a mud weight of 14.5 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.
Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

ON-SITE PREDRILL EVALUATION
Utah Division of Oil, Gas and Mining

Operator NEWFIELD PRODUCTION COMPANY
Well Name Dart 15-10-3-2WH

API Number 43013522960000 **APD No** 8273 **Field/Unit** NORTH MYTON BENCH

Location: 1/4,1/4 SWSE **Sec** 10 **Tw** 3.0S **Rng** 2.0W 368 FSL 2311 FEL
GPS Coord (UTM) 577020 4453733 **Surface Owner** Dart Homestead Ranch, Inc.

Participants

Bruce Dart - Landowner ; Jim Burns - Starpoint ; Forrest Bird, Mandie Crozier, Matt Barber - NFX; Kyle Gardiner - Uintah Engineering

Regional/Local Setting & Topography

on pad previously permitted. Pad will be extended to larger size of 2 pads with 2 pits, tank farms etc.
Previous pad Aubrey 2-15-22-3-2WH original language follows

The location is proposed on fallow grazing lands on the edge of the North Myton Bench. Drainages from the bench impact the site in two places. The area is rather barren of vegetation and the soils are clays. There are numerous eroded knolls and slight swales with an historic floodpalin below. The location is one mile West of Highway 40 and 2 1/2 miles North of Myton just off Dart lane. The region is comprised of benches of differing levels and floodplains form the Duchesne River that has moved from its historic route. The soils are highly erodible and vegetation is sparse with the exception of the floodplains that are quite productive farmlands. Occassional buttes and numerous deep cut erosional features describe the region that is experiencing rapid growth in petroleum development.

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Surface Use Plan

Current Surface Use
Grazing
Wildlfe Habitat

New Road Miles	Well Pad	Src Const Material	Surface Formation
0.5	**Width** 235 **Length** 400	Offsite	UNTA

Ancillary Facilities

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

RECEIVED: October 22, 2013

High desert shrubland ecosystem. Expected vegetation consists of black sagebrush, shadscale, Atriplex spp., mustard spp, rabbit brush, horsebrush, broom snakeweed, Opuntia spp and spring annuals.
Dominant vegetation;
Galletta, mat atriplex and broom snake weed
Wildlife;
Adjacent habitat contains forbs that may be suitable browse for deer, antelope, prairie dogs or rabbits. Wild turkeys have moved in and were encountered multiple times.
DWR did not respond with comments / issues

Soil Type and Characteristics

fat , light colored clays soils

Erosion Issues Y

Sedimentation Issues Y

Site Stability Issues N

Drainage Diverson Required? Y

plans show diversion placement

Berm Required? Y

Erosion Sedimentation Control Required? N

Paleo Survey Run? N **Paleo Potental Observed?** N **Cultural Survey Run?** N **Cultural Resources?** N

CONFIDENTIAL

Reserve Pit

Site-Specific Factors		Site Ranking	
Distance to Groundwater (feet)	75 to 100	10	
Distance to Surface Water (feet)		20	
Dist. Nearest Municipal Well (ft)	500 to 1320	10	
Distance to Other Wells (feet)		20	
Native Soil Type	Mod permeability	10	
Fluid Type	Oil Base Mud Fluid	15	
Drill Cuttings	Normal Rock	0	
Annual Precipitation (inches)	10 to 20	5	
Affected Populations			
Presence Nearby Utility Conduits	Present	15	
	Final Score	105	1 Sensitivity Level

Characteristics / Requirements

RECEIVED: October 22, 2013

Operator intends to use an oil based drilling mud and is therefore required to use a closed loop system. If a reserve pit and freshwater is used, Pit to be dug to a depth of 8'. Because of the likely hood of disturbance to existing sandstone bedrock , pit underlayment is to be used to protect the liner from potential puncture. Pit should be fenced to prevent entry by deer, other wildlife and domestic animals. Pit to be closed within one year after drilling activities are complete.

Closed Loop Mud Required? Y **Liner Required?** Y **Liner Thickness** 16 **Pit Underlayment Required?** Y

Other Observations / Comments

This is a pad that is intended as an extension of a pad that was previously permitted yet not built. They intend to extend this pad by approximately one more pad built immediately adjacent and connecting. It will have two very large cuttings pits etc.

Chris Jensen	7/25/2013
Evaluator	**Date / Time**

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RECEIVED: October 22, 2013

Application for Permit to Drill
Statement of Basis
Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
8273	43013522960000	LOCKED	OW	P	No
Operator	NEWFIELD PRODUCTION COMPANY		**Surface Owner-APD**	Dart Homestead Ranch, Inc.	
Well Name	Dart 15-10-3-2WH		**Unit**		
Field	NORTH MYTON BENCH		**Type of Work**	DRILL	
Location	SWSE 10 3S 2W U 368 FSL 2311 FEL GPS Coord (UTM) 577030E 4453730N				

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Geologic Statement of Basis

Newfield proposes to set 60' of conductor and 1,500' of surface casing at this location. The base of the moderately saline water at this location is estimated to be at a depth of 2,200'. A search of Division of Water Rights records shows 23 water wells within a 10,000 foot radius of the center of Section 10. Depth is listed as ranging from 32 to 800 feet. Depths are not listed for 4 wells. Water use is listed as irrigation, stock watering, municipal and domestic use. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Intermediate casing cement should be brought up to or above the estimated base of the moderately saline ground water.

Brad Hill	8/7/2013
APD Evaluator	**Date / Time**

Surface Statement of Basis

Location is proposed in a good location although outside the spacing window typical of a horizontal well. Access road enters the pad from the east. The landowner was in attendance for the pre-site inspection.
The soil type and topography at present do combine to pose a small threat to erosion or sediment/ pollution transport in these regional climate conditions.
Usual construction standards of the Operator appear to be adequate for the proposed purpose as submitted. Operator has plans to use a closed loop system an oil based mud not indicated on plans.
I recognize no special flora or animal species or cultural resources on site that the proposed action may harm. The location was previously surveyed for cultural and paleontological resources as the operator saw fit. I have advised the operator take all measures necessary to comply with ESA and MBTA and that actions insure no disturbance to species that may have not been seen during onsite visit.
The location should be bermed to prevent fluids from entering or leaving the confines of the pad. Fencing around the reserve pit will be necessary to prevent wildlife and livestock from entering. A synthetic liner of 16 mils (minimum) should be utilized in the reserve pit. Measures (BMP's) shall be taken to protect steep slopes and topsoil pile from erosion, sedimentation and stability issues. A diversion is to be built sufficient to conduct overland or channel flow according to plans submitted

RECEIVED: October 22, 2013

Chris Jensen	7/25/2013
Onsite Evaluator	**Date / Time**

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A closed loop mud circulation system is required for this location.
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the cuttings pit.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	The reserve pit shall be fenced upon completion of drilling operations.
Surface	Measures (BMP's) shall be taken to protect steep slopes and topsoil pile from erosion, sedimentation and stability issues.

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RECEIVED: October 22, 2013

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 7/12/2013 **API NO. ASSIGNED:** 43013522960000

WELL NAME: Dart 15-10-3-2WH

OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695) **PHONE NUMBER:** 435 719-2018

CONTACT: Don Hamilton

PROPOSED LOCATION: SWSE 10 030S 020W **Permit Tech Review:** ☑

SURFACE: 0368 FSL 2311 FEL **Engineering Review:** ☑

BOTTOM: 0660 FNL 1980 FEL **Geology Review:** ☑

COUNTY: DUCHESNE

LATITUDE: 40.23046 **LONGITUDE:** -110.09454

UTM SURF EASTINGS: 577030.00 **NORTHINGS:** 4453730.00

FIELD NAME: NORTH MYTON BENCH

LEASE TYPE: 4 - Fee

LEASE NUMBER: Patented **PROPOSED PRODUCING FORMATION(S):** UTELAND BUTTE

SURFACE OWNER: 4 - Fee **COALBED METHANE:** NO

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RECEIVED AND/OR REVIEWED:

- ☑ **PLAT**
- ☑ **Bond:** STATE - B001834
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☑ **Water Permit:** 437478
- ☐ **RDCC Review:**
- ☑ **Fee Surface Agreement**
- ☐ **Intent to Commingle**

Commingling Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**

Unit:

- ☐ **R649-3-2. General**
- ☑ **R649-3-3. Exception**
- ☑ **Drilling Unit**

Board Cause No: Cause 139-90

Effective Date: 5/9/2012

Siting: 4 Prod LGRRV-WSTC Wells

- ☐ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations:

1 - Exception Location - bhill
5 - Statement of Basis - bhill
8 - Cement to Surface -- 2 strings - hmacdonald
13 - Cement Volume Formation (3a) - hmacdonald
27 - Other - dmason
28 - Other2 - ddoucet

RECEIVED: October 22, 2013

GARY R. HERBERT
Governor
GREGORY S. BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

Permit To Drill
****

Well Name: Dart 15-10-3-2WH
API Well Number: 43013522960000
Lease Number: Patented
Surface Owner: FEE (PRIVATE)
Approval Date: 10/22/2013

Issued to:
NEWFIELD PRODUCTION COMPANY , Rt 3 Box 3630 , Myton, UT 84052

Authority:
Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-90. The expected producing formation or pool is the UTELAND BUTTE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:
This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Exception Location:
Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

General:
Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:
Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

In accordance with Utah Admin. R.649-3-21, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Cement volume for the 5 1/2" production string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 7406' MD in order to adequately isolate the Green River formation and honor legal setback.

Cement volumes for the 13 3/8" and 9 5/8" casing strings shall be determined from actual hole diameters in order to place cement from the pipe setting depths back to the surface.

Horizontal lateral shall not be completed outside legal setbacks (approximately 9356' measured depth based on submitted directional drilling plan).

Additional Approvals:
The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan - contact Dustin Doucet
- Significant plug back of the well - contact Dustin Doucet
- Plug and abandonment of the well - contact Dustin Doucet

Notification Requirements:
The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels
  OR
  submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
  at http://oilgas.ogm.utah.gov
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing - contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program
  - contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well - contact Dan Jarvis

Contact Information:
The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
  801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
  801-231-8956 - after office hours

Reporting Requirements:
All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to

implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:

For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: Patented

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: RANCH 15-10-3-3-2W-MW

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 43013522960000

3. ADDRESS OF OPERATOR: 1001 17th Street, Suite 2000 , Denver, CO, 80202

PHONE NUMBER: 303 382-4443 Ext

9. FIELD and POOL or WILDCAT: NORTH MYTON BENCH

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0368 FSL 2311 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 10 Township: 03.0S Range: 02.0W Meridian: U

COUNTY: DUCHESNE

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 8/1/2014	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	✓ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Newfield Production Company respectfully requests that the name of this well be changed to the Ranch 15-10-3-3-2W-MW.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
July 31, 2014

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Don Hamilton	435 719-2018	Permitting Agent (Star Point Enterprises, Inc.)
SIGNATURE N/A		**DATE** 7/30/2014

RECEIVED: Jul. 30, 2014

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: Patented

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: DART 15-10-3-3-2W-MW

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 43013522960000

3. ADDRESS OF OPERATOR: 1001 17th Street, Suite 2000 , Denver, CO, 80202

PHONE NUMBER: 303 382-4443 Ext

9. FIELD and POOL or WILDCAT: NORTH MYTON BENCH

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0368 FSL 2311 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 10 Township: 03.0S Range: 02.0W Meridian: U

COUNTY: DUCHESNE

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 7/15/2014	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	✓ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Newfield Production Company respectfully requests that the Dart 15-10-3-2WH (private surface and mineral) be changed from a 640 horizontal lateral well to a 1280 horizontal lateral well and that the well name be changed to the Ute Tribal 15-10-3-3-2W-MW (see attached for details and supplemental information).

Approved by the Utah Division of Oil, Gas and Mining

Date: July 29, 2014

By: Dark K Quist

Please Review Attached Conditions of Approval

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Don Hamilton	435 719-2018	Permitting Agent (Star Point Enterprises, Inc.)
SIGNATURE N/A		**DATE** 6/15/2014

RECEIVED: Jun. 15, 2014

The Utah Division of Oil, Gas, and Mining

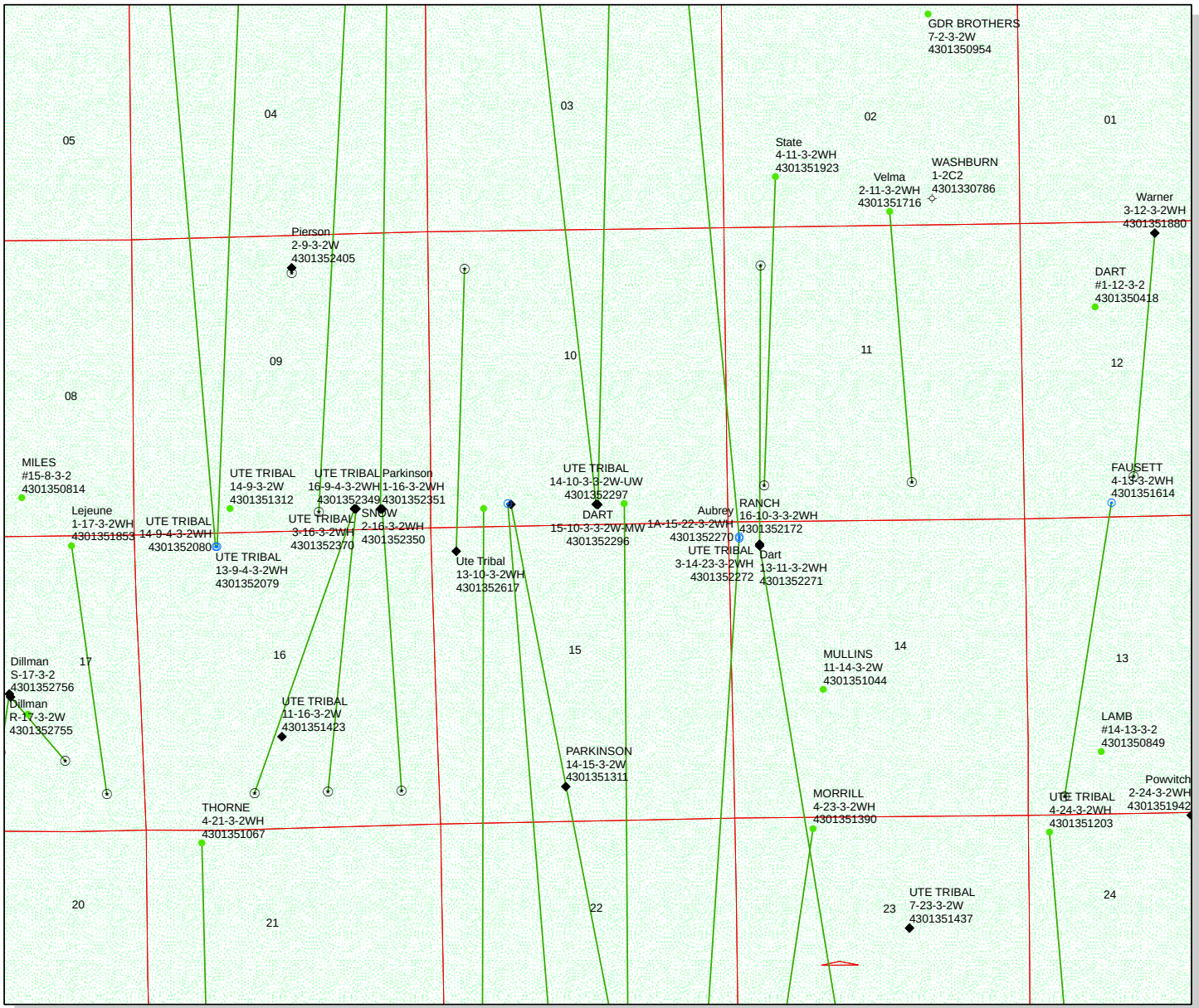
- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43013522960000

As per the drilling plan, the production casing shall be properly cemented throughout the open portions outside the legal setbacks set forth in Board Cause No. 139-110 and shall not be completed outside of these legal setbacks without further approval (legal setbacks from dx survey indicated between depths of 9826' MD and 19059' MD).

RECEIVED: Jul. 29, 2014



API Number: 4301352296

Well Name: DART 15-10-3-3-2W-MW

Township: T03.0S Range: R02.0W Section: 10 Meridian: U

Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared: 6/27/2014
Map Produced by Diana Mason

Wells Query

Status

- APD - Aproved Permit
- DRL - Spuded (Drilling Commenced)
- GIW - Gas Injection
- GS - Gas Storage
- LOC - New Location
- OPS - Operation Suspended
- PA - Plugged Abandoned
- PGW - Producing Gas Well
- POW - Producing Oil Well
- SGW - Shut-in Gas Well
- SOW - Shut-in Oil Well
- TA - Temp. Abandoned
- TW - Test Well
- WDW - Water Disposal
- WIW - Water Injection Well
- WSW - Water Supply Well

Units

STATUS

- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Fields

STATUS

- Unknown
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- STORAGE
- TERMINATED

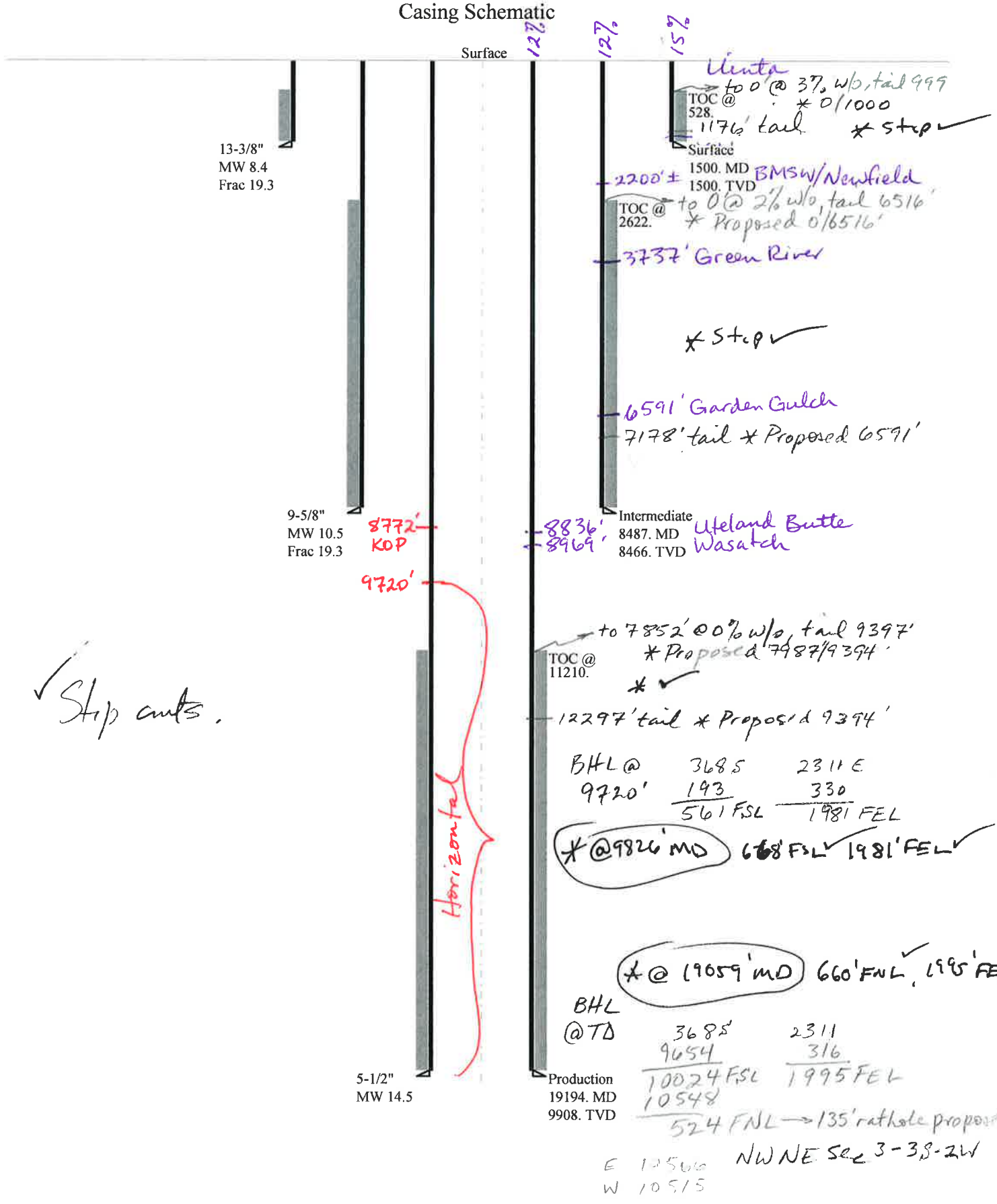
2,300 1,150 0 2,300 Feet

1:22,103

RECEIVED: Jun. 27, 2014

43013522960000 Ute Tribal 15-10-3-3-2W-MWrev2

Casing Schematic



✓ Stip cmts.

Well name:	**43013522960000 Ute Tribal 15-10-3-3-2W-MWrev2**
Operator:	**NEWFIELD PRODUCTION COMPANY**
String type:	Surface
Project ID:	43-013-52296
Location:	DUCHESNE COUNTY

Design parameters:

Collapse
Mud weight: 8.400 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 1,320 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 1,500 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

Tension:
8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on buoyed weight.
Neutral point: 1,314 ft

Environment:
H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 95 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 528 ft

Non-directional string.

Re subsequent strings:
Next setting depth: 8,466 ft
Next mud weight: 10.500 ppg
Next setting BHP: 4,618 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 1,500 ft
Injection pressure: 1,500 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
1	1500	13.375	54.50	J-55	ST&C	1500	1500	12.49	18611

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	655	1130	1.727	1500	2730	1.82	71.6	514	7.18 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: July 28,2014
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 1500 ft, a mud weight of 8.4 ppg The casing is considered to be evacuated for collapse purposes.
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	**43013522960000 Ute Tribal 15-10-3-3-2W-MWrev2**
Operator:	**NEWFIELD PRODUCTION COMPANY**
String type:	Intermediate
Project ID:	43-013-52296
Location:	DUCHESNE COUNTY

Design parameters:

Collapse

Mud weight:	10.500 ppg
Internal fluid density:	4.950 ppg

Burst

Max anticipated surface pressure:	5,284 psi
Internal gradient:	0.220 psi/ft
Calculated BHP	7,146 psi
Annular backup:	3.15 ppg

Minimum design factors:

Collapse:

Design factor	1.125

Burst:

Design factor	1.00

Tension:

8 Round STC:	1.80 (J)
8 Round LTC:	1.80 (J)
Buttress:	1.60 (J)
Premium:	1.50 (J)
Body yield:	1.60 (B)

Tension is based on air weight.
Neutral point: 7,151 ft

Environment:

H2S considered?	No
Surface temperature:	74 °F
Bottom hole temperature:	193 °F
Temperature gradient:	1.40 °F/100ft
Minimum section length:	1,000 ft
Cement top:	2,622 ft

Directional well information:

Kick-off point	8746 ft
Departure at shoe:	387 ft
Maximum dogleg:	.2 °/100ft
Inclination at shoe:	9.43 °

Re subsequent strings:

Next setting depth:	9,908 ft
Next mud weight:	14.500 ppg
Next setting BHP:	7,464 psi
Fracture mud wt:	19.250 ppg
Fracture depth:	8,466 ft
Injection pressure:	8,466 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
1	8487	9.625	40.00	N-80	Buttress	8466	8487	8.75	115557

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	2441	3086	1.264	5761	5750	1.00	338.6	916.3	2.71 B

Prepared by: Helen Sadik-Macdonald — Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: July 28,2014
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 8466 ft, a mud weight of 10.5 ppg An internal gradient of .257 psi/ft was used for collapse from TD
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.
Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	**43013522960000 Ute Tribal 15-10-3-3-2W-MWrev2**
Operator:	**NEWFIELD PRODUCTION COMPANY**
String type:	Production
Project ID:	43-013-52296
Location:	DUCHESNE COUNTY

Design parameters:

Collapse
Mud weight: 14.500 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 5,284 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 7,464 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

Tension:
8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Tension is based on air weight.
Neutral point: 7,746 ft

Environment:
H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 213 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Cement top: 11,210 ft

Directional well information:
Kick-off point 8746 ft
Departure at shoe: 9662 ft
Maximum dogleg: 10.01 °/100ft
Inclination at shoe: 86.89 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
1	19194	5.5	20.00	P-110	Buttress	9908	19194	4.653	159237

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	7464	11100	1.487	7464	12360	1.66	198.2	641.1	3.24 B

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: July 28,2014
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 9908 ft, a mud weight of 14.5 ppg The casing is considered to be evacuated for collapse purposes.
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.
Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

BOPE REVIEW — Ute Tribal 15-10-3-3-2W-Mwrev2 API 43-013-52296-0000

Well Name	Ute Tribal 15-10-3-3-2W-Mwrev2	API 43-013-52296-0000	
	String 1	String 2	String 3
Casing Size (")	13 3/8	9 5/8	5 1/2
Setting Depth (TVD)	1500	8466	9908
Previous Shoe Setting Depth (TVD)	40	1500	8466
Max Mud Weight (ppg)	8.4	10.5	14.5
BOPE Proposed (psi)	500	5000	5000
Casing Internal Yield (psi)	2730	5750	12360
Operators Max Anticipated Pressure (psi)	7213		14.0 ppg

Calculations	String 1	13 3/8 "		
Max BHP [psi]	.052*Setting Depth*MW =	655		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	475	YES	Diverter, air and or fresh water system
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	325	YES	
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth) =	334	NO	
Required Casing/BOPE Test Pressure		1500	psi	
*Max Pressure Allowed @ Previous Casing Shoe =		40	psi	*Assumes 1psi/ft frac gradient

Calculations	String 2	9 5/8 "		
Max BHP [psi]	.052*Setting Depth*MW =	4622		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	3607	YES	5M BOP, 2 ram preventers, annular preventer, rotating head
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	2760	YES	choke mainfold
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth) =	3090	NO	
Required Casing/BOPE Test Pressure		4025	psi	
*Max Pressure Allowed @ Previous Casing Shoe =		1500	psi	*Assumes 1psi/ft frac gradient

Calculations	String 3	5 1/2 "		
Max BHP [psi]	.052*Setting Depth*MW =	7471		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	6282	NO	5M BOP, 2 ram preventers, annular preventer, rotating head
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	5291	NO	choke manifold
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth) =	7153	YES	
Required Casing/BOPE Test Pressure		5000	psi	
*Max Pressure Allowed @ Previous Casing Shoe =		5750	psi	*Assumes 1psi/ft frac gradient

Sundry Number: 52118 API Well Number: 43013522960000

Ute Tribal 15-10-3-3-2W-MW

Newfield Production Company respectfully requests that the Dart 15-10-3-2WH (private surface and mineral) be changed from a 640 horizontal lateral well to a 1280 horizontal lateral well and that the well name be changed to the Ute Tribal 15-10-3-3-2W-MW. The surface location of the well does not change. Newfield also made very minor changes to the pad layout. The MD will change from 13297' to 19194' and the TVD will change from 9125' to 9908'. Following are the updated locations along the intended well bore path:

- Surface Location: 368' FSL & 2311' FEL of Section 10, T3S, R2W, USB&M, (29.41' move);
- Top of Producing Interval: 660' FSL & 1980' FEL of Section 10, T3S, R2W, USB&M;
- Bottom of Producing Interval: 660' FNL & 1980' FEL of Section 3, T3S, R2W, USB&M;
- Bottom Hole: 525' FNL & 1980' FEL of Section 3, T3S, R2W, USB&M;

Attached please find an updated plat package, drilling plan, horizontal plan, exception letter and lease plat reflecting the changes. Surface use with Dart Homestead Ranch, Inc. remains in place with affidavit also attached.

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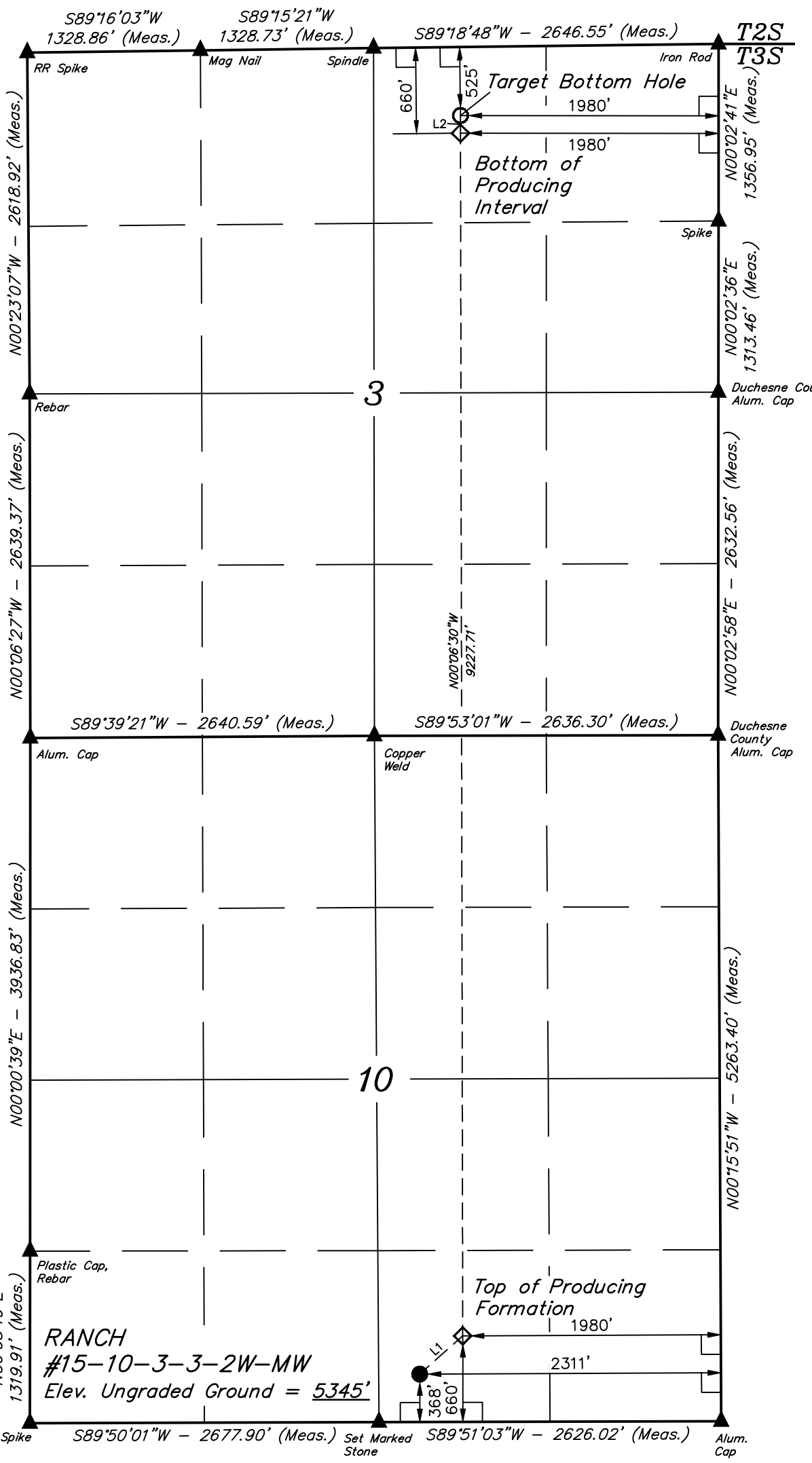
T3S, R2W, U.S.B.&M.



NEWFIELD EXPLORATION COMPANY

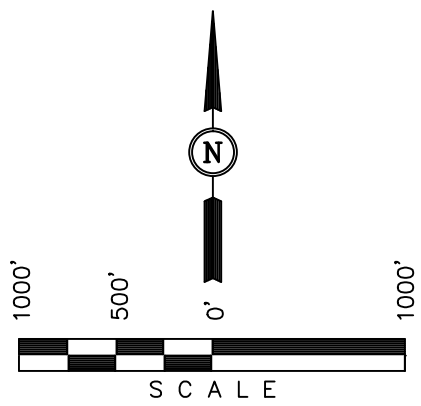
Well location, RANCH #15–10–3–3–2W–MW, located as shown in the SW 1/4 SE 1/4 of Section 10, T3S, R2W, U.S.B.&M., Duchesne County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION LOCATED AT THE SOUTHEAST CORNER OF SECTION 20, T3S, R2W, U.S.B.&M. TAKEN FROM THE MYTON, QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5148 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



NAD 83 (SURFACE LOCATION)
LATITUDE = 40°13'49.99" (40.230553)
LONGITUDE = 110°05'40.34" (110.094539)
NAD 27 (SURFACE LOCATION)
LATITUDE = 40°13'50.14" (40.230594)
LONGITUDE = 110°05'37.80" (110.093833)
NAD 83 (TOP OF PRODUCING FORMATION)
LATITUDE = 40°13'52.89" (40.231358)
LONGITUDE = 110°05'36.08" (110.093356)
NAD 27 (TOP OF PRODUCING FORMATION)
LATITUDE = 40°13'53.03" (40.231397)
LONGITUDE = 110°05'33.54" (110.092650)
NAD 83 (BOTTOM OF PRODUCING INTERVAL)
LATITUDE = 40°15'24.05" (40.256681)
LONGITUDE = 110°05'36.27" (110.093408)
NAD 27 (BOTTOM OF PRODUCING INTERVAL)
LATITUDE = 40°15'24.20" (40.256722)
LONGITUDE = 110°05'33.73" (110.092703)
NAD 83 (TARGET BOTTOM HOLE)
LATITUDE = 40°15'25.39" (40.257053)
LONGITUDE = 110°05'36.27" (110.093408)
NAD 27 (TARGET BOTTOM HOLE)
LATITUDE = 40°15'25.54" (40.257094)
LONGITUDE = 110°05'33.72" (110.092700)

LEGEND:

- ∟ = 90° SYMBOL
- ● = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N48°23'22"E	441.29'
L2	N00°02'41"E	135.01'

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

04-22-14

REVISED: 04–18–14
REVISED: 12–17–13
REVISED: 11–06–13

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST – VERNAL, UTAH 84078
(435) 789–1017

SCALE	DATE SURVEYED:	DATE DRAWN:
1" = 1000'	04–22–13	05–28–13
PARTY: C.A. R.L.L. S.F.	REFERENCES: G.L.O. PLAT	
WEATHER: WARM	FILE: NEWFIELD EXPLORATION COMPANY	

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Newfield Production Company
15-10-3-3-2W-MW
Surface Hole Location: 368' FSL, 2311' FEL, Section 10, T3S, R2W
Bottom Hole Location: 525' FNL, 1980' FEL, Section 3, T3S, R2W
Duchesne County, UT

Drilling Program

1. Formation Tops

Uinta	surface
Green River	3,737'
Garden Gulch	6,591'
Uteland Butte Member	8,836'
Wasatch	8,969'
Lateral TD	9,908' TVD / 19,194' MD

2. Depth to Oil, Gas, Water, or Minerals

Base of moderately saline	2,197'	(water)
Green River	6,591' - 8,969'	(oil)
Wasatch	8,969' - 9,908'	(oil)

3. Pressure Control

Section	BOP Description
Surface	Diverter
Intermediate	The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc for a 5M system.
Prod/Prod Liner	The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc for a 5M system. A 5M BOP system will consist of 2 ram preventers (double or two singles) and an annular preventer (see attached diagram). A choke manifold rated to at least 5,000 psi will be used.

4. Casing

Description	Interval		Weight (ppf)	Grade	Coup	Pore Press @ Shoe	MW @ Shoe	Frac Grad @ Shoe	Safety Factors		
	Top	Bottom (TVD/MD)							Burst	Collapse	Tension
Conductor	0'	60'	--	--	Weld	--	--	--	--	--	--
20									--	--	--
Surface	0'	1,500'	54.5	J-55	STC	8.33	8.4	14	2,730	1,130	514,000
13 3/8									2.89	2.63	6.29
Intrm Drilling	0'	8,466'	40	N-80	BTC	10	10.5	16	5,750	3,090	916,000
9 5/8		8,487'							1.30	1.34	2.70
Production	0'	9,908'	20	P-110	BTC	14	14.5	17	12,360	11,080	641,000
5 1/2		19,194'							2.16	1.85	1.67

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Assumptions:

Surface casing MASP = (frac gradient + 1.0 ppg) - (gas gradient)
Intermediate casing drilling MASP = 0.5 ppg gas kick with a 70 bbl gain and frac at the shoe with a 1 ppg safety factor
Production casing MASP = (reservoir pressure) - (gas gradient)
Intermediate collapse calculations assume 50% evacuated
Maximum intermediate csg collapse load assumes loss of mud to a fluid level of 4,233'
Intermediate csg run from surface to 8,466' and will not experience full evacuation
Production csg run from surface to TD will isolate intermediate csg from production loads
Production csg withstands burst and collapse loads for anticipated production conditions
Surface & production collapse calcs assume fully evacuated casing w/ a gas gradient
All tension calculations assume air weight of casing
Gas gradient = 0.15 psi/ft

All casing shall be new.
All casing strings shall have a minimum of 1 centralizer on each of the bottom 3 joints.

5. Cement

Job	Hole Size	Fill	Slurry Description	ft^3 / sacks	OH excess	Weight (ppg)	Yield (ft^3/sk)
Conductor	24	60'	Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake	66 / 57	15%	15.8	1.17
Surface Lead	17 1/2	1,000'	Varicem (Type III) + .125 lbs/sk Cello Flakes	799 / 240	15%	11.0	3.33
Surface Tail	17 1/2	500'	Varicem (Type III) + .125 lbs/sk Cello Flakes	399 / 210	15%	13.0	1.9
Intermediate Lead	12 1/4	6,591'	HLC Premium - 35% Poz/65% Glass G + 10% bentonite	2374 / 673	15%	11.0	3.53
Intermediate Tail	12 1/4	1,896'	50/50 Poz/Class G + 1% bentonite	683 / 529	15%	14.0	1.29
Production Lead	8 3/4	1,407'	Elastiseal Unfoamed	391 / 212	10%	17.3	1.84
Production Tail	8 3/4	9,800'	Elastiseal Foamed	2476 / 1345	0%	14.5 - 17.3	1.84

The surface casing will be cemented to surface. In the event that cement does not reach surface during the primary cement job, a remedial job will be performed.

Actual cement volumes for the intermediate casing string will be calculated from an open hole caliper log or gauge hole if logs are not ran, plus 15% excess.

The 5.5" production string will be run from surface to TD and cemented to setback. The cement slurries will be adjusted for hole conditions and blend test results. The lateral will be cemented past the setback.

The wellbore will cross the heal setback @ 9,394' MD
The first perforation will be within 19,059' MD

Per the directional plan, the bore hole will be drilled 135' past the toe setback for the rat hole and shoe track. This well will not be perforated or produced outside the legal setbacks.

6. Type and Characteristics of Proposed Circulating Medium

Interval — **Description**

Surface - 1,500' — An air and/or fresh water system will be utilized. If an air rig is used, the blooie line discharge may be less than 100' from the wellbore in order to minimize location size. The blooie line is not equipped with an automatic igniter. The air compressor may be located less than 100' from the well bore due to the low possibility of combustion with the air/dust mixture. Water will be on location to be used as kill fluid, if necessary.

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1,500'	- 8,487'	A water based mud system will be utilized. Hole stability may be improved with additions of KCl or a similar inhibitive substance. In order to control formation pressure the system will be weighted with additions of bentonite, and if conditions warrant, with barite. Anticipated maximum mud weight is 10.5 ppg.
8,487'	- TD	One of two possible mud systems may be used depending on offset well performance on ongoing wells: A water based mud: Hole stability may be improved with additions of KCl or a similar inhibitive substance. In order to control formation pressure the system will be weighted with additions of bentonite, and if conditions warrant, with barite. -or- A diesel based OBM system: with an oil to water ratio between 70/30 and 80/20. Emulsifiers and wetting agents will be used to maintain adequate mud properties. A water phase salinity will be maintained in the range of 25% using CaCl (Calcium Chloride). All cuttings will be dried and centrifuged so that they can be easily transferred to a lined cuttings pit with little to no free fluid on them. The cuttings will be mixed with fly ash prior to transportation to a location on Newfield owned surface. Once on Newfield owned surface, the cuttings will be treated with the previously approved FIRMUS process and used as a construction material on future location and/or roads on Newfield owned surface. The cuttings may also be transported to a state approved disposal facility. Anticipated maximum mud weight is 14.5 ppg.

7. Logging, Coring, and Testing

Logging: A dual induction, gamma ray, and caliper log may be run from KOP to the base of the surface casing. An azimuthal gamma ray LWD log will be run from the shoe of the intermediate casing to TD. A cement bond log will be run from KOP to the cement top behind the production casing and or intermediate casing.

Cores: As deemed necessary.

DST: There are no DST's planned for this well.

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8. Anticipated Abnormal Pressure or Temperature

Maximum anticipated bottomhole pressure will be approximately equal to total depth (feet) multiplied by a 0.73 psi/ft gradient.

9,908' x 0.73 psi/ft = 7213 psi

No abnormal temperature is expected. No H_2S is expected.

9. Other Aspects

The lateral of this well will target the Wasatch formation
After setting 9-5/8" casing, an 8-3/4" vertical hole will be drilled to a kick off point of 8,771'
Directional tools will then be used to build to 86.89 degrees inclination.
The lateral will be drilled to the bottomhole location shown on the plat. A 5-1/2" longstring will be run from surface to TD and cemented in place.

Newfield requests the following variances from Onshore Order #2:
- Variance from Onshoer Order #2, III.E.1
  Refer to Newfield Production Company Standard Operating Practices "Ute Tribal Green River Development Program" paragraph 9.0

If oil based mud (OBM) is used and If Newfield owns the surface rights on the same drilling site at a location where construction is desired, the cuttings may be used for construction by a Firmus® process at that location. Otherwise, after the cuttings have been made safe for transport as described in paragraph 6, they will be transported to another location on which Newfield owns surface rights and there mixed, as part of a Firmus® process, with at least one additional chemical that will convert them to a temporarily uncured cementitious mixture that will be placed and shaped into a temporary desired final structure that will spontaneously harden within seven days after placement to form the desired structure. Samples of the temporary desired final structure may be taken for testing as described below (after the samples have hardened), or samples of the starting pretreated cuttings and mud will be taken during the construction and later mixed in a laboratory, molded, and cured to simulate the final structure as well as reasonably possible. Either these laboratory-made simulations of the final structure or samples of the temporary mixture itself after hardening, will be mechanically tested directly to determine their unconfined compressive strength and their hydraulic conductivity. Leachates of the mechanically tested structures themselves or of finer particles made by crushing and size-grading of the mechanically tested structures themselves to a specified particle size range will be analyzed, according to specified methods, for their contents of arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, zinc, benzene, total petroleum hydrocarbons (TPH), and chlorides, and the pH of these leachates will also be measured. The results of all these tests will be reported by Newfield to UDOGM at intervals as requested, along with the latitude and longitude (or other comparable location data) of the site of the useful constructions built.

Water flows in the surface hole are likely. If the water flow is less than 400 bbls/hr, the well will be allowed to flow until the surface casing point is reached and water will be hauled off location. If the water flow is greater than 400 bbls/hr, the water flow will be controlled with kill weight mud which will be maintained until TD. In both situations, the cement density will be adjusted to meet or exceed the mud weight needed to kill the water flow and the well will be shut in once cement is in place. If cement fails to reach the surface or falls back, a top job will be performed to bring cement to surface. Any water flows will be sampled and tested and results will be sent to UDOGM.

A diveter will be used to drill the surface hole interval.

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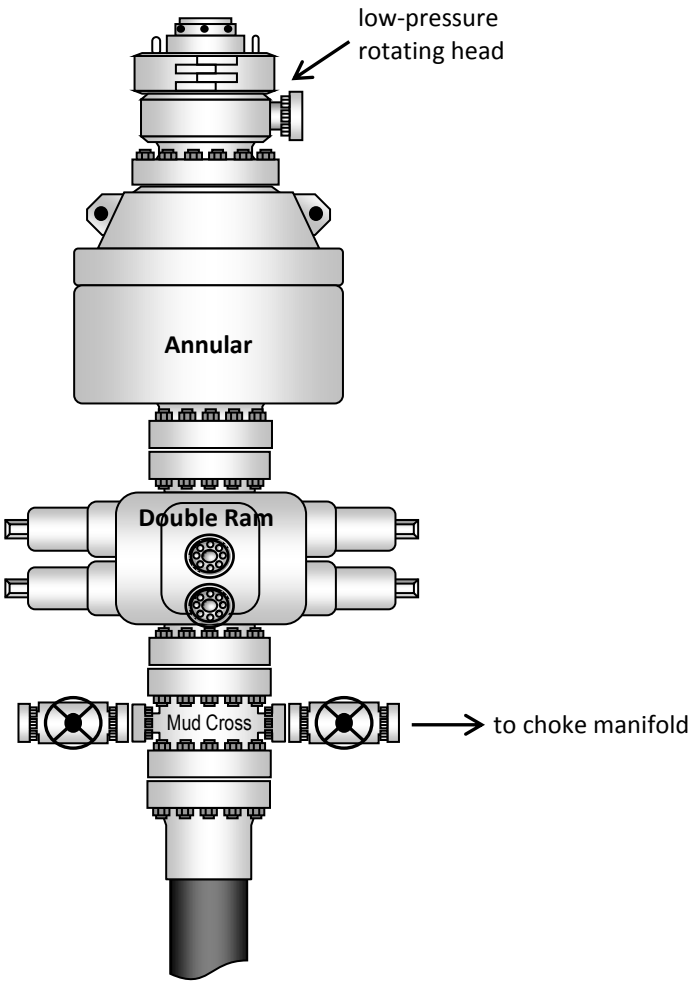
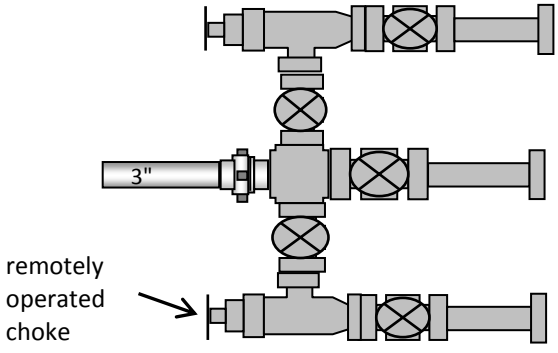
Typical 5M BOP stack configuration



Typical 5M choke manifold configuration



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NEWFIELD PRODUCTION COMPANY

Location: UTAH Slot: SLOT#01 15-10-3-3-2W-MW (368'FSL & 2311'FEL SEC 10)
Field: DUCHESNE COUNTY Well: 15-10-3-3-2W-MW
Facility: SEC.10-T03S-R02W Wellbore: 15-10-3-3-2W-MW PWB

Plot reference wellpath is 15-10-3-3-2W-MW REV-A.0 PWP

True vertical depths are referenced to PIONEER 44 (RT)	Grid System: NAD83 / Lambert Utah SP, Central Zone (4302), US feet
Measured depths are referenced to PIONEER 44 (RT)	North Reference: True north
PIONEER 44 (RT) to Mean Sea Level: 5369 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOT#01 15-10-3-3-2W-MW (368'FSL & 2311'FEL SEC 10)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: wagnjam on 5/9/2014

Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	26.00	0.000	142.307	26.00	0.00	0.00	0.00	0.00
End of Tangent	3788.63	0.000	142.307	3788.63	0.00	0.00	0.00	0.00
End of Build	8771.71	10.000	142.307	8746.45	-343.23	265.21	0.20	-334.38
End of 3D Arc	9719.87	86.890	359.910	9394.05	193.47	330.41	10.00	204.16
End of Tangent	19194.39	86.890	359.910	9908.00	9654.03	315.55	0.00	9659.18

Location Information

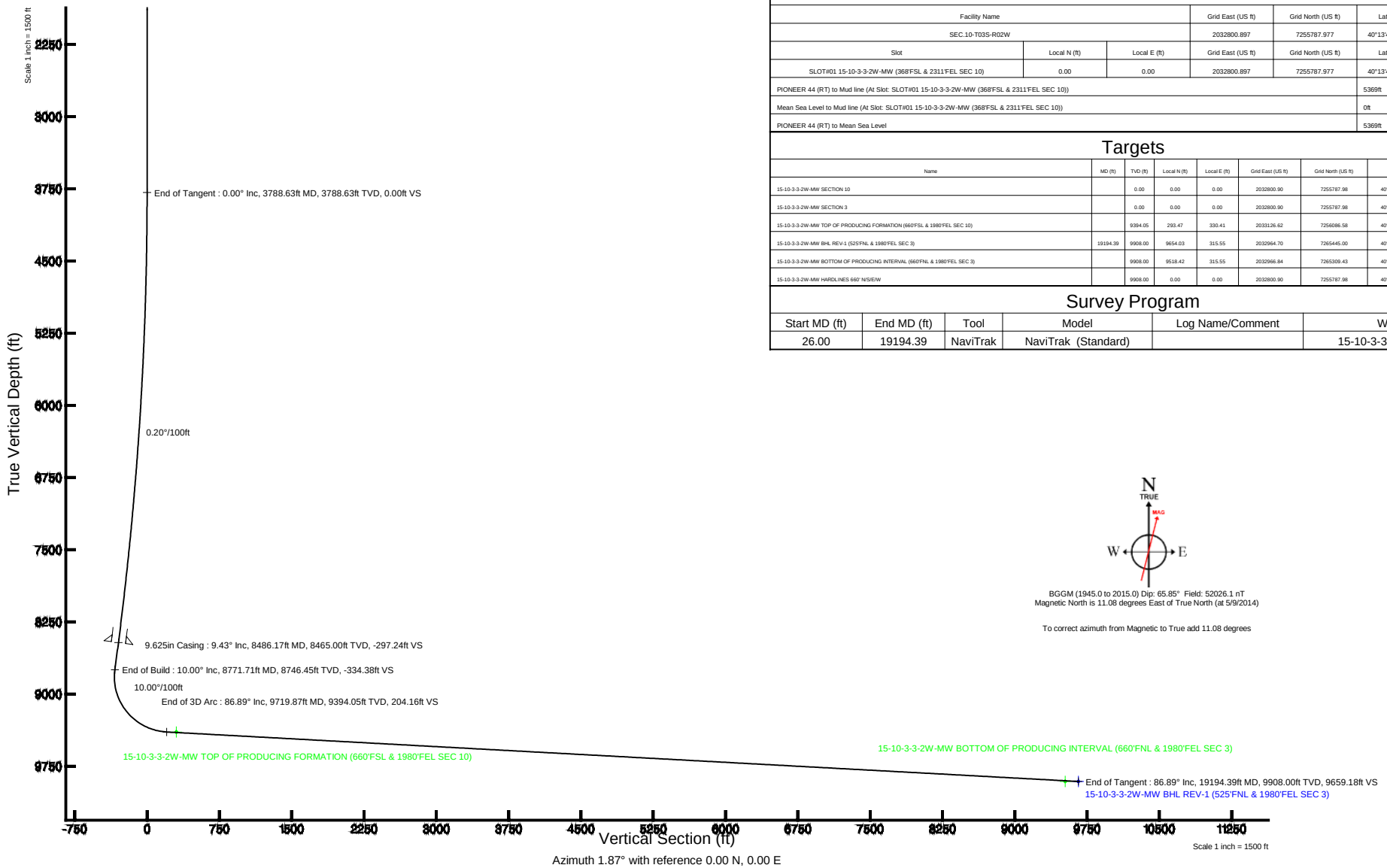
Facility Name			Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
SEC.10-T03S-R02W			2032800.897	7255787.977	40°13'49.990"N	110°05'40.340"W
Slot	**Local N (ft)**	**Local E (ft)**	**Grid East (US ft)**	**Grid North (US ft)**	**Latitude**	**Longitude**
SLOT#01 15-10-3-3-2W-MW (368'FSL & 2311'FEL SEC 10)	0.00	0.00	2032800.897	7255787.977	40°13'49.990"N	110°05'40.340"W
PIONEER 44 (RT) to Mud line (At Slot: SLOT#01 15-10-3-3-2W-MW (368'FSL & 2311'FEL SEC 10))					5369ft	
Mean Sea Level to Mud line (At Slot: SLOT#01 15-10-3-3-2W-MW (368'FSL & 2311'FEL SEC 10))					0ft	
PIONEER 44 (RT) to Mean Sea Level					5369ft	

Targets

Name	MD (ft)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
15-10-3-3-2W-MW SECTION 10		0.00	0.00	0.00	2032800.90	7255787.98	40°13'49.990"N	110°05'40.340"W
15-10-3-3-2W-MW SECTION 3		0.00	0.00	0.00	2032800.90	7255787.98	40°13'49.990"N	110°05'40.340"W
15-10-3-3-2W-MW TOP OF PRODUCING FORMATION (660'FSL & 1980'FEL SEC 10)		9394.05	293.47	330.41	2033126.62	7256086.58	40°13'52.890"N	110°05'36.080"W
15-10-3-3-2W-MW BHL REV-1 (525'FNL & 1980'FEL SEC 3)	19194.39	9908.00	9654.03	315.55	2032964.70	7265445.00	40°15'25.390"N	110°05'36.270"W
15-10-3-3-2W-MW BOTTOM OF PRODUCING INTERVAL (660'FNL & 1980'FEL SEC 3)		9908.00	9518.42	315.55	2032966.84	7265309.43	40°15'24.050"N	110°05'36.270"W
15-10-3-3-2W-MW HARDLINES 660' N/S/E/W		9908.00	0.00	0.00	2032800.90	7255787.98	40°13'49.990"N	110°05'40.340"W

Survey Program

Start MD (ft)	End MD (ft)	Tool	Model	Log Name/Comment	Wellbore
26.00	19194.39	NaviTrak	NaviTrak (Standard)		15-10-3-3-2W-MW PWB



BGGM (1945.0 to 2015.0) Dip: 65.85° Field: 52026.1 nT
Magnetic North is 11.08 degrees East of True North (at 5/9/2014)

To correct azimuth from Magnetic to True add 11.08 degrees

Azimuth 1.87° with reference 0.00 N, 0.00 E

NEWFIELD PRODUCTION COMPANY

Location: UTAH Slot: SLOT#01 15-10-3-3-2W-MW (368'FSL & 2311'FEL SEC 10)

Field: DUCHESNE COUNTY Well: 15-10-3-3-2W-MW

Facility: SEC.10-T03S-R02W Wellbore: 15-10-3-3-2W-MW PWB

Plot reference wellpath is 15-10-3-3-2W-MW REV-A.0 PWP

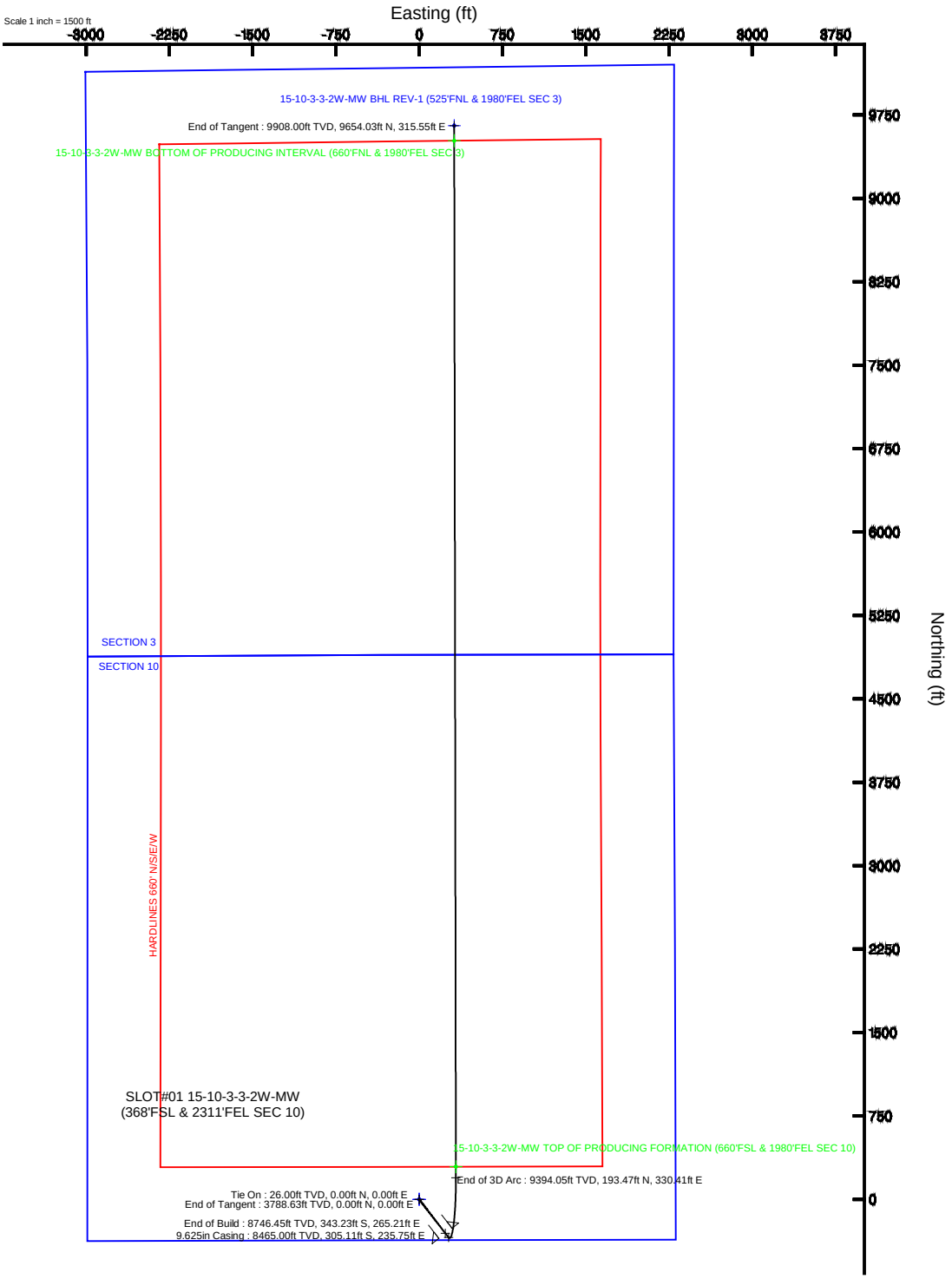
True vertical depths are referenced to PIONEER 44 (RT)	Grid System: NAD83 / Lambert Utah SP, Central Zone (4302), US feet
Measured depths are referenced to PIONEER 44 (RT)	North Reference: True north
PIONEER 44 (RT) to Mean Sea Level: 5369 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOT#01 15-10-3-3-2W-MW (368'FSL & 2311'FEL SEC 10)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: wagnjam on 5/9/2014

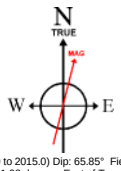
Wellpath Comments

MD (ft)	X (ft)	Y (ft)	TVD (ft)	Inclination (°)	Azimuth (°)	VS (ft)	Comment
2197.00	0.00	0.00	2197.00	0.000	142.307	0.00	USABLE WATER
3737.00	0.00	0.00	3737.00	0.000	142.307	0.00	GREEN RIVER FORMATION
5685.39	38.51	-49.84	5684.00	3.806	142.307	-48.55	TRONA
5817.71	44.07	-57.03	5816.00	4.072	142.307	-55.56	MAHOGANY BENCH
6592.50	84.11	-108.86	6588.00	5.627	142.307	-106.05	GARDEN GULCH (GG)
6843.83	99.85	-129.23	6838.00	6.131	142.307	-125.90	GARDEN GULCH 1 (GG1)
7016.87	111.47	-144.26	7010.00	6.478	142.307	-140.55	GARDEN GULCH 2 (GG2)
7728.49	165.95	-214.77	7716.00	7.906	142.307	-209.23	DOUGLAS CREEK MEMBER
8437.52	230.90	-298.83	8417.00	9.329	142.307	-291.13	LOWER BLACK SHALE
8554.10	242.60	-313.97	8532.00	9.563	142.307	-305.88	CASTLE PEAK LIMESTONE
8703.23	257.99	-333.88	8679.00	9.863	142.307	-325.28	CP LIMES
8847.94	273.32	-348.66	8822.00	6.103	92.586	-339.54	UTELAND BUTTE
8983.89	287.51	-333.25	8956.00	14.584	23.807	-323.68	WASATCH
9154.59	303.81	-269.95	9113.00	30.893	9.858	-259.88	WASATCH 10
9253.26	311.93	-212.97	9193.00	40.594	6.736	-202.66	WASATCH 12
9458.11	324.55	-55.74	9322.00	60.879	2.988	-45.11	WASATCH 15
9564.70	328.42	41.54	9365.00	71.465	1.629	52.24	WASATCH 15 BASE LIME
9661.89	330.18	135.83	9388.00	81.126	0.533	146.55	WASATCH 15 TARGET

NEWFIELD

BAKER HUGHES





BGGM (1945.0 to 2015.0) Dip: 65.85° Field: 52026.1 nT
Magnetic North is 11.08 degrees East of True North (at 5/9/2014)

To correct azimuth from Magnetic to True add 11.08 degrees

NEWFIELD

Planned Wellpath Report

15-10-3-3-2W-MW REV-A.0 PWP

BAKER HUGHES

REFERENCE WELLPATH IDENTIFICATION

Operator	**NEWFIELD PRODUCTION COMPANY**	Slot	**SLOT#01 15-10-3-3-2W-MW (368'FSL & 2311'FEL SEC 10)**
Area	**UTAH**	Well	**15-10-3-3-2W-MW**
Field	**DUCHESNE COUNTY**	Wellbore	**15-10-3-3-2W-MW PWB**
Facility	**SEC.10-T03S-R02W**		

REPORT SETUP INFORMATION

Projection System	**NAD83 / Lambert Utah SP, Central Zone (4302), US feet**	Software System	**WellArchitect® 4.0.0**
North Reference	**True**	User	**Wagnjam**
Scale	**0.999923**	Report Generated	**5/9/2014** at **2:27:15 PM**
Convergence at slot	**n/a**	Database/Source file	**WA_Denver/15-10-3-3-2W-MW_PWB.xml**

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	**East[ft]**	**Easting[US ft]**	**Northing[US ft]**	**Latitude**	**Longitude**
Slot Location	**0.00**	**0.00**	2032800.90	7255787.98	40°13'49.990"N	110°05'40.340"W
Facility Reference Pt			2032800.90	7255787.98	**40°13'49.990"N**	**110°05'40.340"W**
Field Reference Pt			1997327.35	7254397.58	**40°13'41.510"N**	**110°13'17.950"W**

WELLPATH DATUM

Calculation method	**Minimum curvature**	PIONEER 44 (RT) to Facility Vertical Datum	**5369.00ft**
Horizontal Reference Pt	**Slot**	PIONEER 44 (RT) to Mean Sea Level	**5369.00ft**
Vertical Reference Pt	**PIONEER 44 (RT)**	PIONEER 44 (RT) to Mud Line at Slot (SLOT#01 15-10-3-3-2W-MW (368'FSL & 2311'FEL SEC 10))	**5369.00ft**
MD Reference Pt	**PIONEER 44 (RT)**	Section Origin	**N 0.00, E 0.00 ft**
Field Vertical Reference	**Mean Sea Level**	Section Azimuth	**1.87°**

NEWFIELD

Planned Wellpath Report

15-10-3-3-2W-MW REV-A.0 PWP

BAKER HUGHES

REFERENCE WELLPATH IDENTIFICATION			
Operator	**NEWFIELD PRODUCTION COMPANY**	Slot	**SLOT#01 15-10-3-3-2W-MW (368'FSL & 2311'FEL SEC 10)**
Area	**UTAH**	Well	**15-10-3-3-2W-MW**
Field	**DUCHESNE COUNTY**	Wellbore	**15-10-3-3-2W-MW PWB**
Facility	**SEC.10-T03S-R02W**		

WELLPATH DATA (215 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	142.307	0.00	0.00	0.00	0.00	0.00	
26.00	0.000	142.307	26.00	0.00	0.00	0.00	0.00	Tie On
126.00†	0.000	142.307	126.00	0.00	0.00	0.00	0.00	
226.00†	0.000	142.307	226.00	0.00	0.00	0.00	0.00	
326.00†	0.000	142.307	326.00	0.00	0.00	0.00	0.00	
426.00†	0.000	142.307	426.00	0.00	0.00	0.00	0.00	
526.00†	0.000	142.307	526.00	0.00	0.00	0.00	0.00	
626.00†	0.000	142.307	626.00	0.00	0.00	0.00	0.00	
726.00†	0.000	142.307	726.00	0.00	0.00	0.00	0.00	
826.00†	0.000	142.307	826.00	0.00	0.00	0.00	0.00	
926.00†	0.000	142.307	926.00	0.00	0.00	0.00	0.00	
1026.00†	0.000	142.307	1026.00	0.00	0.00	0.00	0.00	
1126.00†	0.000	142.307	1126.00	0.00	0.00	0.00	0.00	
1226.00†	0.000	142.307	1226.00	0.00	0.00	0.00	0.00	
1326.00†	0.000	142.307	1326.00	0.00	0.00	0.00	0.00	
1426.00†	0.000	142.307	1426.00	0.00	0.00	0.00	0.00	
1526.00†	0.000	142.307	1526.00	0.00	0.00	0.00	0.00	
1626.00†	0.000	142.307	1626.00	0.00	0.00	0.00	0.00	
1726.00†	0.000	142.307	1726.00	0.00	0.00	0.00	0.00	
1826.00†	0.000	142.307	1826.00	0.00	0.00	0.00	0.00	
1926.00†	0.000	142.307	1926.00	0.00	0.00	0.00	0.00	
2026.00†	0.000	142.307	2026.00	0.00	0.00	0.00	0.00	
2126.00†	0.000	142.307	2126.00	0.00	0.00	0.00	0.00	
2197.00†	0.000	142.307	2197.00	0.00	0.00	0.00	0.00	USABLE WATER
2226.00†	0.000	142.307	2226.00	0.00	0.00	0.00	0.00	
2326.00†	0.000	142.307	2326.00	0.00	0.00	0.00	0.00	
2426.00†	0.000	142.307	2426.00	0.00	0.00	0.00	0.00	
2526.00†	0.000	142.307	2526.00	0.00	0.00	0.00	0.00	
2626.00†	0.000	142.307	2626.00	0.00	0.00	0.00	0.00	
2726.00†	0.000	142.307	2726.00	0.00	0.00	0.00	0.00	

NEWFIELD

Planned Wellpath Report

15-10-3-3-2W-MW REV-A.0 PWP

BAKER HUGHES

REFERENCE WELLPATH IDENTIFICATION			
Operator	**NEWFIELD PRODUCTION COMPANY**	Slot	**SLOT#01 15-10-3-3-2W-MW (368'FSL & 2311'FEL SEC 10)**
Area	**UTAH**	Well	**15-10-3-3-2W-MW**
Field	**DUCHESNE COUNTY**	Wellbore	**15-10-3-3-2W-MW PWB**
Facility	**SEC.10-T03S-R02W**		

WELLPATH DATA (215 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
2826.00†	0.000	142.307	2826.00	0.00	0.00	0.00	0.00	
2926.00†	0.000	142.307	2926.00	0.00	0.00	0.00	0.00	
3026.00†	0.000	142.307	3026.00	0.00	0.00	0.00	0.00	
3126.00†	0.000	142.307	3126.00	0.00	0.00	0.00	0.00	
3226.00†	0.000	142.307	3226.00	0.00	0.00	0.00	0.00	
3326.00†	0.000	142.307	3326.00	0.00	0.00	0.00	0.00	
3426.00†	0.000	142.307	3426.00	0.00	0.00	0.00	0.00	
3526.00†	0.000	142.307	3526.00	0.00	0.00	0.00	0.00	
3626.00†	0.000	142.307	3626.00	0.00	0.00	0.00	0.00	
3726.00†	0.000	142.307	3726.00	0.00	0.00	0.00	0.00	
3737.00†	0.000	142.307	3737.00	0.00	0.00	0.00	0.00	GREEN RIVER FORMATION
3788.63	0.000	142.307	3788.63	0.00	0.00	0.00	0.00	End of Tangent
3826.00†	0.075	142.307	3826.00	-0.02	-0.02	0.01	0.20	
3926.00†	0.276	142.307	3926.00	-0.25	-0.26	0.20	0.20	
4026.00†	0.476	142.307	4026.00	-0.76	-0.78	0.60	0.20	
4126.00†	0.677	142.307	4125.99	-1.54	-1.58	1.22	0.20	
4226.00†	0.878	142.307	4225.98	-2.58	-2.65	2.05	0.20	
4326.00†	1.078	142.307	4325.97	-3.90	-4.00	3.09	0.20	
4426.00†	1.279	142.307	4425.95	-5.48	-5.63	4.35	0.20	
4526.00†	1.480	142.307	4525.92	-7.34	-7.53	5.82	0.20	
4626.00†	1.680	142.307	4625.88	-9.47	-9.72	7.51	0.20	
4726.00†	1.881	142.307	4725.83	-11.86	-12.18	9.41	0.20	
4826.00†	2.082	142.307	4825.77	-14.53	-14.91	11.52	0.20	
4926.00†	2.282	142.307	4925.70	-17.46	-17.92	13.85	0.20	
5026.00†	2.483	142.307	5025.61	-20.67	-21.21	16.39	0.20	
5126.00†	2.684	142.307	5125.51	-24.14	-24.78	19.15	0.20	
5226.00†	2.885	142.307	5225.39	-27.89	-28.62	22.12	0.20	
5326.00†	3.085	142.307	5325.26	-31.90	-32.74	25.30	0.20	
5426.00†	3.286	142.307	5425.10	-36.18	-37.14	28.70	0.20	
5526.00†	3.487	142.307	5524.93	-40.74	-41.82	32.31	0.20	

NEWFIELD

Planned Wellpath Report

15-10-3-3-2W-MW REV-A.0 PWP

BAKER HUGHES

REFERENCE WELLPATH IDENTIFICATION			
Operator	**NEWFIELD PRODUCTION COMPANY**	Slot	**SLOT#01 15-10-3-3-2W-MW (368'FSL & 2311'FEL SEC 10)**
Area	**UTAH**	Well	**15-10-3-3-2W-MW**
Field	**DUCHESNE COUNTY**	Wellbore	**15-10-3-3-2W-MW PWB**
Facility	**SEC.10-T03S-R02W**		

WELLPATH DATA (215 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
5626.00†	3.687	142.307	5624.73	-45.56	-46.77	36.14	0.20	
5685.39†	3.806	142.307	5684.00	-48.55	-49.84	38.51	0.20	TRONA
5726.00†	3.888	142.307	5724.51	-50.65	-51.99	40.17	0.20	
5817.71†	4.072	142.307	5816.00	-55.56	-57.03	44.07	0.20	MAHOGANY BENCH
5826.00†	4.089	142.307	5824.27	-56.02	-57.50	44.43	0.20	
5926.00†	4.289	142.307	5924.00	-61.65	-63.28	48.89	0.20	
6026.00†	4.490	142.307	6023.71	-67.55	-69.33	53.57	0.20	
6126.00†	4.691	142.307	6123.39	-73.72	-75.67	58.47	0.20	
6226.00†	4.891	142.307	6223.04	-80.15	-82.28	63.57	0.20	
6326.00†	5.092	142.307	6322.66	-86.86	-89.16	68.89	0.20	
6426.00†	5.293	142.307	6422.25	-93.84	-96.32	74.43	0.20	
6526.00†	5.493	142.307	6521.81	-101.08	-103.76	80.17	0.20	
6592.50†	5.627	142.307	6588.00	-106.05	-108.86	84.11	0.20	GARDEN GULCH (GG)
6626.00†	5.694	142.307	6621.33	-108.60	-111.47	86.13	0.20	
6726.00†	5.895	142.307	6720.82	-116.38	-119.46	92.31	0.20	
6826.00†	6.095	142.307	6820.27	-124.43	-127.73	98.69	0.20	
6843.83†	6.131	142.307	6838.00	-125.90	-129.23	99.85	0.20	GARDEN GULCH 1 (GG1)
6926.00†	6.296	142.307	6919.69	-132.75	-136.27	105.29	0.20	
7016.87†	6.478	142.307	7010.00	-140.55	-144.26	111.47	0.20	GARDEN GULCH 2 (GG2)
7026.00†	6.497	142.307	7019.07	-141.34	-145.08	112.10	0.20	
7126.00†	6.697	142.307	7118.41	-150.20	-154.17	119.13	0.20	
7226.00†	6.898	142.307	7217.70	-159.32	-163.54	126.36	0.20	
7326.00†	7.099	142.307	7316.96	-168.72	-173.18	133.81	0.20	
7426.00†	7.299	142.307	7416.17	-178.38	-183.10	141.48	0.20	
7526.00†	7.500	142.307	7515.34	-188.30	-193.29	149.35	0.20	
7626.00†	7.701	142.307	7614.46	-198.50	-203.75	157.44	0.20	
7726.00†	7.901	142.307	7713.53	-208.96	-214.49	165.74	0.20	
7728.49†	7.906	142.307	7716.00	-209.23	-214.77	165.95	0.20	DOUGLAS CREEK MEMBER
7826.00†	8.102	142.307	7812.56	-219.70	-225.51	174.25	0.20	
7926.00†	8.303	142.307	7911.53	-230.69	-236.80	182.97	0.20	

NEWFIELD

Planned Wellpath Report

15-10-3-3-2W-MW REV-A.0 PWP

BAKER HUGHES

REFERENCE WELLPATH IDENTIFICATION			
Operator	**NEWFIELD PRODUCTION COMPANY**	Slot	**SLOT#01 15-10-3-3-2W-MW (368'FSL & 2311'FEL SEC 10)**
Area	**UTAH**	Well	**15-10-3-3-2W-MW**
Field	**DUCHESNE COUNTY**	Wellbore	**15-10-3-3-2W-MW PWB**
Facility	**SEC.10-T03S-R02W**		

WELLPATH DATA (215 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
8026.00†	8.504	142.307	8010.46	-241.96	-248.36	191.91	0.20	
8126.00†	8.704	142.307	8109.34	-253.49	-260.20	201.05	0.20	
8226.00†	8.905	142.307	8208.16	-265.29	-272.31	210.41	0.20	
8326.00†	9.106	142.307	8306.92	-277.36	-284.70	219.98	0.20	
8426.00†	9.306	142.307	8405.64	-289.69	-297.36	229.76	0.20	
8437.52†	9.329	142.307	8417.00	-291.13	-298.83	230.90	0.20	LOWER BLACK SHALE
8526.00†	9.507	142.307	8504.29	-302.29	-310.29	239.76	0.20	
8554.10†	9.563	142.307	8532.00	-305.88	-313.97	242.60	0.20	CASTLE PEAK LIMESTONE
8626.00†	9.708	142.307	8602.89	-315.16	-323.50	249.96	0.20	
8703.23†	9.863	142.307	8679.00	-325.28	-333.88	257.99	0.20	CP LIMES
8726.00†	9.908	142.307	8701.43	-328.29	-336.98	260.38	0.20	
8771.71	10.000	142.307	8746.45	-334.38	-343.23	265.21	0.20	End of Build
8826.00†	6.591	112.045	8800.19	-339.09	-348.13	270.98	10.00	
8847.94†	6.103	92.586	8822.00	-339.54	-348.66	273.32	10.00	UTELAND BUTTE
8926.00†	9.642	38.517	8899.40	-334.34	-343.72	281.55	10.00	
8983.89†	14.584	23.807	8956.00	-323.68	-333.25	287.51	10.00	WASATCH
9026.00†	18.486	18.203	8996.36	-312.35	-322.05	291.74	10.00	
9126.00†	28.102	11.113	9088.12	-273.79	-283.79	301.26	10.00	
9154.59†	30.893	9.858	9113.00	-259.88	-269.95	303.81	10.00	WASATCH 10
9226.00†	37.906	7.460	9171.89	-219.84	-230.08	309.80	10.00	
9253.26†	40.594	6.736	9193.00	-202.66	-212.97	311.93	10.00	WASATCH 12
9326.00†	47.782	5.137	9245.13	-152.12	-162.57	317.13	10.00	
9426.00†	57.692	3.449	9305.60	-72.71	-83.30	323.00	10.00	
9458.11†	60.879	2.988	9322.00	-45.11	-55.74	324.55	10.00	WASATCH 15
9526.00†	67.620	2.098	9351.48	15.99	5.31	327.25	10.00	
9564.70†	71.465	1.629	9365.00	52.24	41.54	328.42	10.00	WASATCH 15 BASE LIME
9626.00†	77.558	0.928	9381.36	111.29	100.57	329.74	10.00	
9661.89†	81.126	0.533	9388.00	146.55	135.83	330.18	10.00	WASATCH 15 TARGET
9719.87	86.890	359.910	9394.05[1]	204.16	193.47	330.41	10.00	End of 3D Arc
9726.00†	86.890	359.910	9394.38	210.28	199.59	330.40	0.00	

NEWFIELD

Planned Wellpath Report

15-10-3-3-2W-MW REV-A.0 PWP

BAKER HUGHES

REFERENCE WELLPATH IDENTIFICATION			
Operator	**NEWFIELD PRODUCTION COMPANY**	Slot	**SLOT#01 15-10-3-3-2W-MW (368'FSL & 2311'FEL SEC 10)**
Area	**UTAH**	Well	**15-10-3-3-2W-MW**
Field	**DUCHESNE COUNTY**	Wellbore	**15-10-3-3-2W-MW PWB**
Facility	**SEC.10-T03S-R02W**		

WELLPATH DATA (215 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
9826.00†	86.890	359.910	9399.81	310.07	299.44	330.24	0.00	
9926.00†	86.890	359.910	9405.23	409.87	399.30	330.08	0.00	
10026.00†	86.890	359.910	9410.66	509.66	499.15	329.93	0.00	
10126.00†	86.890	359.910	9416.08	609.46	599.00	329.77	0.00	
10226.00†	86.890	359.910	9421.51	709.25	698.86	329.61	0.00	
10326.00†	86.890	359.910	9426.93	809.04	798.71	329.46	0.00	
10426.00†	86.890	359.910	9432.35	908.84	898.56	329.30	0.00	
10526.00†	86.890	359.910	9437.78	1008.63	998.41	329.14	0.00	
10626.00†	86.890	359.910	9443.20	1108.43	1098.27	328.98	0.00	
10726.00†	86.890	359.910	9448.63	1208.22	1198.12	328.83	0.00	
10826.00†	86.890	359.910	9454.05	1308.02	1297.97	328.67	0.00	
10926.00†	86.890	359.910	9459.48	1407.81	1397.82	328.51	0.00	
11026.00†	86.890	359.910	9464.90	1507.60	1497.68	328.36	0.00	
11126.00†	86.890	359.910	9470.33	1607.40	1597.53	328.20	0.00	
11226.00†	86.890	359.910	9475.75	1707.19	1697.38	328.04	0.00	
11326.00†	86.890	359.910	9481.18	1806.99	1797.23	327.89	0.00	
11426.00†	86.890	359.910	9486.60	1906.78	1897.09	327.73	0.00	
11526.00†	86.890	359.910	9492.02	2006.58	1996.94	327.57	0.00	
11626.00†	86.890	359.910	9497.45	2106.37	2096.79	327.42	0.00	
11726.00†	86.890	359.910	9502.87	2206.16	2196.64	327.26	0.00	
11826.00†	86.890	359.910	9508.30	2305.96	2296.50	327.10	0.00	
11926.00†	86.890	359.910	9513.72	2405.75	2396.35	326.95	0.00	
12026.00†	86.890	359.910	9519.15	2505.55	2496.20	326.79	0.00	
12126.00†	86.890	359.910	9524.57	2605.34	2596.06	326.63	0.00	
12226.00†	86.890	359.910	9530.00	2705.13	2695.91	326.48	0.00	
12326.00†	86.890	359.910	9535.42	2804.93	2795.76	326.32	0.00	
12426.00†	86.890	359.910	9540.85	2904.72	2895.61	326.16	0.00	
12526.00†	86.890	359.910	9546.27	3004.52	2995.47	326.01	0.00	
12626.00†	86.890	359.910	9551.69	3104.31	3095.32	325.85	0.00	
12726.00†	86.890	359.910	9557.12	3204.11	3195.17	325.69	0.00	

NEWFIELD

Planned Wellpath Report

15-10-3-3-2W-MW REV-A.0 PWP

BAKER HUGHES

REFERENCE WELLPATH IDENTIFICATION			
Operator	**NEWFIELD PRODUCTION COMPANY**	Slot	**SLOT#01 15-10-3-3-2W-MW (368'FSL & 2311'FEL SEC 10)**
Area	**UTAH**	Well	**15-10-3-3-2W-MW**
Field	**DUCHESNE COUNTY**	Wellbore	**15-10-3-3-2W-MW PWB**
Facility	**SEC.10-T03S-R02W**		

WELLPATH DATA (215 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
12826.00†	86.890	359.910	9562.54	3303.90	3295.02	325.54	0.00	
12926.00†	86.890	359.910	9567.97	3403.69	3394.88	325.38	0.00	
13026.00†	86.890	359.910	9573.39	3503.49	3494.73	325.22	0.00	
13126.00†	86.890	359.910	9578.82	3603.28	3594.58	325.07	0.00	
13226.00†	86.890	359.910	9584.24	3703.08	3694.43	324.91	0.00	
13326.00†	86.890	359.910	9589.67	3802.87	3794.29	324.75	0.00	
13426.00†	86.890	359.910	9595.09	3902.67	3894.14	324.59	0.00	
13526.00†	86.890	359.910	9600.52	4002.46	3993.99	324.44	0.00	
13626.00†	86.890	359.910	9605.94	4102.25	4093.85	324.28	0.00	
13726.00†	86.890	359.910	9611.36	4202.05	4193.70	324.12	0.00	
13826.00†	86.890	359.910	9616.79	4301.84	4293.55	323.97	0.00	
13926.00†	86.890	359.910	9622.21	4401.64	4393.40	323.81	0.00	
14026.00†	86.890	359.910	9627.64	4501.43	4493.26	323.65	0.00	
14126.00†	86.890	359.910	9633.06	4601.22	4593.11	323.50	0.00	
14226.00†	86.890	359.910	9638.49	4701.02	4692.96	323.34	0.00	
14326.00†	86.890	359.910	9643.91	4800.81	4792.81	323.18	0.00	
14426.00†	86.890	359.910	9649.34	4900.61	4892.67	323.03	0.00	
14526.00†	86.890	359.910	9654.76	5000.40	4992.52	322.87	0.00	
14626.00†	86.890	359.910	9660.19	5100.20	5092.37	322.71	0.00	
14726.00†	86.890	359.910	9665.61	5199.99	5192.22	322.56	0.00	
14826.00†	86.890	359.910	9671.03	5299.78	5292.08	322.40	0.00	
14926.00†	86.890	359.910	9676.46	5399.58	5391.93	322.24	0.00	
15026.00†	86.890	359.910	9681.88	5499.37	5491.78	322.09	0.00	
15126.00†	86.890	359.910	9687.31	5599.17	5591.63	321.93	0.00	
15226.00†	86.890	359.910	9692.73	5698.96	5691.49	321.77	0.00	
15326.00†	86.890	359.910	9698.16	5798.76	5791.34	321.62	0.00	
15426.00†	86.890	359.910	9703.58	5898.55	5891.19	321.46	0.00	
15526.00†	86.890	359.910	9709.01	5998.34	5991.05	321.30	0.00	
15626.00†	86.890	359.910	9714.43	6098.14	6090.90	321.15	0.00	
15726.00†	86.890	359.910	9719.86	6197.93	6190.75	320.99	0.00	

NEWFIELD

Planned Wellpath Report

15-10-3-3-2W-MW REV-A.0 PWP

BAKER HUGHES

REFERENCE WELLPATH IDENTIFICATION			
Operator	**NEWFIELD PRODUCTION COMPANY**	Slot	**SLOT#01 15-10-3-3-2W-MW (368'FSL & 2311'FEL SEC 10)**
Area	**UTAH**	Well	**15-10-3-3-2W-MW**
Field	**DUCHESNE COUNTY**	Wellbore	**15-10-3-3-2W-MW PWB**
Facility	**SEC.10-T03S-R02W**		

WELLPATH DATA (215 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
15826.00†	86.890	359.910	9725.28	6297.73	6290.60	320.83	0.00	
15926.00†	86.890	359.910	9730.70	6397.52	6390.46	320.68	0.00	
16026.00†	86.890	359.910	9736.13	6497.31	6490.31	320.52	0.00	
16126.00†	86.890	359.910	9741.55	6597.11	6590.16	320.36	0.00	
16226.00†	86.890	359.910	9746.98	6696.90	6690.01	320.20	0.00	
16326.00†	86.890	359.910	9752.40	6796.70	6789.87	320.05	0.00	
16426.00†	86.890	359.910	9757.83	6896.49	6889.72	319.89	0.00	
16526.00†	86.890	359.910	9763.25	6996.29	6989.57	319.73	0.00	
16626.00†	86.890	359.910	9768.68	7096.08	7089.42	319.58	0.00	
16726.00†	86.890	359.910	9774.10	7195.87	7189.28	319.42	0.00	
16826.00†	86.890	359.910	9779.53	7295.67	7289.13	319.26	0.00	
16926.00†	86.890	359.910	9784.95	7395.46	7388.98	319.11	0.00	
17026.00†	86.890	359.910	9790.37	7495.26	7488.83	318.95	0.00	
17126.00†	86.890	359.910	9795.80	7595.05	7588.69	318.79	0.00	
17226.00†	86.890	359.910	9801.22	7694.85	7688.54	318.64	0.00	
17326.00†	86.890	359.910	9806.65	7794.64	7788.39	318.48	0.00	
17426.00†	86.890	359.910	9812.07	7894.43	7888.25	318.32	0.00	
17526.00†	86.890	359.910	9817.50	7994.23	7988.10	318.17	0.00	
17626.00†	86.890	359.910	9822.92	8094.02	8087.95	318.01	0.00	
17726.00†	86.890	359.910	9828.35	8193.82	8187.80	317.85	0.00	
17826.00†	86.890	359.910	9833.77	8293.61	8287.66	317.70	0.00	
17926.00†	86.890	359.910	9839.20	8393.41	8387.51	317.54	0.00	
18026.00†	86.890	359.910	9844.62	8493.20	8487.36	317.38	0.00	
18126.00†	86.890	359.910	9850.04	8592.99	8587.21	317.23	0.00	
18226.00†	86.890	359.910	9855.47	8692.79	8687.07	317.07	0.00	
18326.00†	86.890	359.910	9860.89	8792.58	8786.92	316.91	0.00	
18426.00†	86.890	359.910	9866.32	8892.38	8886.77	316.76	0.00	
18526.00†	86.890	359.910	9871.74	8992.17	8986.62	316.60	0.00	
18626.00†	86.890	359.910	9877.17	9091.96	9086.48	316.44	0.00	
18726.00†	86.890	359.910	9882.59	9191.76	9186.33	316.29	0.00	

NEWFIELD

Planned Wellpath Report

15-10-3-3-2W-MW REV-A.0 PWP

BAKER HUGHES

REFERENCE WELLPATH IDENTIFICATION			
Operator	**NEWFIELD PRODUCTION COMPANY**	Slot	**SLOT#01 15-10-3-3-2W-MW (368'FSL & 2311'FEL SEC 10)**
Area	**UTAH**	Well	**15-10-3-3-2W-MW**
Field	**DUCHESNE COUNTY**	Wellbore	**15-10-3-3-2W-MW PWB**
Facility	**SEC.10-T03S-R02W**		

WELLPATH DATA (215 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
18826.00†	86.890	359.910	9888.02	9291.55	9286.18	316.13	0.00	
18926.00†	86.890	359.910	9893.44	9391.35	9386.03	315.97	0.00	
19026.00†	86.890	359.910	9898.87	9491.14	9485.89	315.81	0.00	
19126.00†	86.890	359.910	9904.29	9590.94	9585.74	315.66	0.00	
19194.39	86.890	359.910	9908.00[2]	9659.18	9654.03	315.55	0.00	End of Tangent

HOLE & CASING SECTIONS - Ref Wellbore: 15-10-3-3-2W-MW PWB Ref Wellpath: 15-10-3-3-2W-MW REV-A.0 PWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
9.625in Casing	26.00	8486.17	8460.17	26.00	8465.00	0.00	0.00	-305.11	235.75

NEWFIELD

Planned Wellpath Report

15-10-3-3-2W-MW REV-A.0 PWP

BAKER HUGHES

REFERENCE WELLPATH IDENTIFICATION			
Operator	**NEWFIELD PRODUCTION COMPANY**	Slot	**SLOT#01 15-10-3-3-2W-MW (368'FSL & 2311'FEL SEC 10)**
Area	**UTAH**	Well	**15-10-3-3-2W-MW**
Field	**DUCHESNE COUNTY**	Wellbore	**15-10-3-3-2W-MW PWB**
Facility	**SEC.10-T03S-R02W**		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
15-10-3-3-2W-MW SECTION 10		0.00	0.00	0.00	2032800.90	7255787.98	40°13'49.990"N	110°05'40.340"W	polygon
15-10-3-3-2W-MW SECTION 3		0.00	0.00	0.00	2032800.90	7255787.98	40°13'49.990"N	110°05'40.340"W	polygon
1) 15-10-3-3-2W-MW TOP OF PRODUCING FORMATION (660'FSL & 1980'FEL SEC 10)		9394.05	293.47	330.41	2033126.62	7256086.58	**40°13'52.890"N**	**110°05'36.080"W**	point
2) 15-10-3-3-2W-MW BHL REV-1 (525'FNL & 1980'FEL SEC 3)	19194.39	9908.00	9654.03	315.55	2032964.70	7265445.00	**40°15'25.390"N**	**110°05'36.270"W**	point
15-10-3-3-2W-MW BOTTOM OF PRODUCING INTERVAL (660'FNL & 1980'FEL SEC 3)		9908.00	9518.42	315.55	2032966.84	7265309.43	**40°15'24.050"N**	**110°05'36.270"W**	point
15-10-3-3-2W-MW HARDLINES 660' N/S/E/W		9908.00	0.00	0.00	2032800.90	7255787.98	40°13'49.990"N	110°05'40.340"W	polygon

SURVEY PROGRAM - Ref Wellbore: 15-10-3-3-2W-MW PWB Ref Wellpath: 15-10-3-3-2W-MW REV-A.0 PWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
26.00	19194.39	NaviTrak (Standard)		15-10-3-3-2W-MW PWB

NEWFIELD

Planned Wellpath Report

15-10-3-3-2W-MW REV-A.0 PWP

BAKER HUGHES

REFERENCE WELLPATH IDENTIFICATION			
Operator	**NEWFIELD PRODUCTION COMPANY**	Slot	**SLOT#01 15-10-3-3-2W-MW (368'FSL & 2311'FEL SEC 10)**
Area	**UTAH**	Well	**15-10-3-3-2W-MW**
Field	**DUCHESNE COUNTY**	Wellbore	**15-10-3-3-2W-MW PWB**
Facility	**SEC.10-T03S-R02W**		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
2197.00	0.000	142.307	2197.00	USABLE WATER
3737.00	0.000	142.307	3737.00	GREEN RIVER FORMATION
5685.39	3.806	142.307	5684.00	TRONA
5817.71	4.072	142.307	5816.00	MAHOGANY BENCH
6592.50	5.627	142.307	6588.00	GARDEN GULCH (GG)
6843.83	6.131	142.307	6838.00	GARDEN GULCH 1 (GG1)
7016.87	6.478	142.307	7010.00	GARDEN GULCH 2 (GG2)
7728.49	7.906	142.307	7716.00	DOUGLAS CREEK MEMBER
8437.52	9.329	142.307	8417.00	LOWER BLACK SHALE
8554.10	9.563	142.307	8532.00	CASTLE PEAK LIMESTONE
8703.23	9.863	142.307	8679.00	CP LIMES
8847.94	6.103	92.586	8822.00	UTELAND BUTTE
8983.89	14.584	23.807	8956.00	WASATCH
9154.59	30.893	9.858	9113.00	WASATCH 10
9253.26	40.594	6.736	9193.00	WASATCH 12
9458.11	60.879	2.988	9322.00	WASATCH 15
9564.70	71.465	1.629	9365.00	WASATCH 15 BASE LIME
9661.89	81.126	0.533	9388.00	WASATCH 15 TARGET

NEWFIELD EXPLORATION COMPANY

LOCATION LAYOUT FOR

#15-10-3-2 WELL PAD FOR
UTE TRIBAL #14-10-3-3-2W-UW & RANCH #15-10-3-3-2W-MW
SECTION 10, T3S, R2W, U.S.B.&M.
SW 1/4 SE 1/4

FIGURE #1

SCALE: 1" = 60'
DATE: 05-02-13
DRAWN BY: S.F.
REVISED: 05-28-13
REVISED: 07-09-13
REVISED: 11-06-13
REVISED: 12-17-13
REVISED: 04-21-14
REVISED: 05-01-14

REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH
05-01-14

Winds
Prevailing
Pit
Previously Approved #2-15-22-3-2WH Well Pad
Previously Approved Surface Use Area for the #2-15-22-3-2WH Well Pad
Proposed Access Road Re-Route
Proposed Egress Road
F-8.1' El. 37.9'
C-14.7' El. 60.7'
185'
F-1.4' El. 44.6'
Sta. 4+30
Round Corners as Needed
NOTE:
Earthwork Calculations Require a Fill @ the Location Stakes For Balance. All Fill is to be Compacted to a Minimum of 95% of the Maximum Dry Density Obtained by AASHTO Method t-99.
Approx. Top of Cut Slope
Cut/Fill Transition Line
F-1.4' El. 44.6'
#15-10
#14-10
C-15.8' El. 61.8'
120'
65'
30'
150'
Sta. 2+00
F-2.3' El. 43.7'
F-12.3' El. 33.7'
35'
El. 54.7'
C-16.7' (Btm. Pit)
60'
100'
CUTTINGS PIT (2' Berm AND 8' Deep 10' Total Depth)
C-4.0' El. 50.0'
Sta. 1+00
El. 51.4'
C-13.4' (Btm. Pit)
F-0.1' El. 45.9'
F-6.5' El. 39.5'
Sta. 0+00
Topsoil Stockpile
C-7.6' El. 53.6'
Cuttings Pit Backfill
Pit Topsoil
Approx. Toe of Fill Slope
F-11.7' El. 34.3'
Total Pit Capacity W/2' of Freeboard = 6,080 Bbls.± Total Pit Volume = 1,740 Cu. Yds
Proposed Surface Use Area Expansion
Proposed Access Road
Proposed Pipeline for the #13-10-3-2 Well Pad
Proposed Access Road for the #13-10-3-2 Well Pad

NOTE:

- THE PROPOSED TOP OF PRODUCING FORMATION FOR THE UTE TRIBAL #14-10-3-3-2W-UW WELL BEARS N73°59'41"W 1020.52' FROM THE PROPOSED WELL HEAD.

  THE PROPOSED BOTTOM OF PRODUCING INTERVAL FOR THE UTE TRIBAL #14-10-3-3-2W-UW WELL BEARS N00°06'09"W 9214.67' FROM THE PROPOSED TOP OF PRODUCING FORMATION.

  THE PROPOSED TARGET BOTTOM HOLE FOR THE UTE TRIBAL #14-10-3-3-2W-UW WELL BEARS N00°23'07"W 135.00' FROM THE PROPOSED BOTTOM OF PRODUCING INTERVAL.

- THE PROPOSED TOP OF PRODUCING FORMATION FOR THE RANCH #15-10-3-3-2W-MW WELL BEARS N48°23'22"E 441.29' FROM THE PROPOSED WELL HEAD.

  THE PROPOSED BOTTOM OF PRODUCING INTERVAL FOR THE RANCH #15-10-3-3-2W-MW WELL BEARS N00°06'30"W 9227.71' FROM THE PROPOSED TOP OF PRODUCING FORMATION.

  THE PROPOSED TARGET BOTTOM HOLE FOR THE RANCH #15-10-3-3-2W-MW WELL BEARS N00°02'41"E 135.01' FROM THE PROPOSED BOTTOM OF PRODUCING INTERVAL.

Elev. Ungraded Ground At #15-10-3-3-2W-LW Loc. Stake = 5343.7'
FINISHED GRADE ELEV. AT #15-10-3-3-2W-LW LOC. STAKE = 5346.0'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

RECEIVED: Jun. 15, 2014

1" = 40'
X-Section Scale
1" = 100'

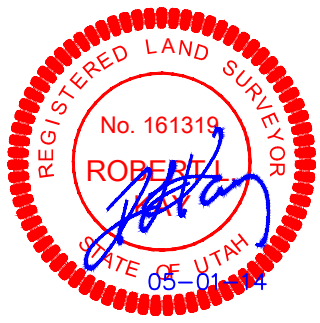
DATE: 05-02-13
DRAWN BY: S.F.
REVISED: 05-28-13
REVISED: 07-09-13
REVISED: 11-06-13
REVISED: 12-17-13
REVISED: 04-21-14
REVISED: 05-01-14

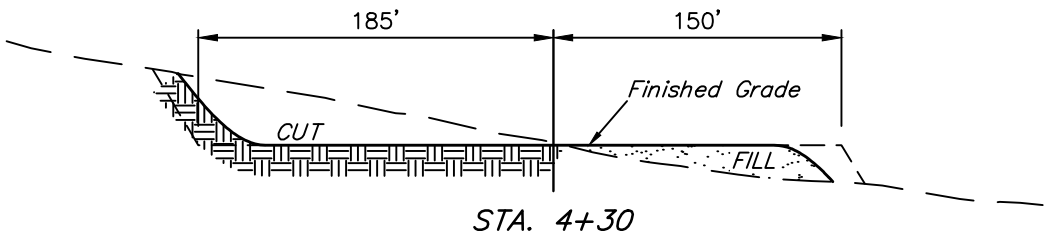
NEWFIELD EXPLORATION COMPANY

TYPICAL CROSS SECTIONS FOR

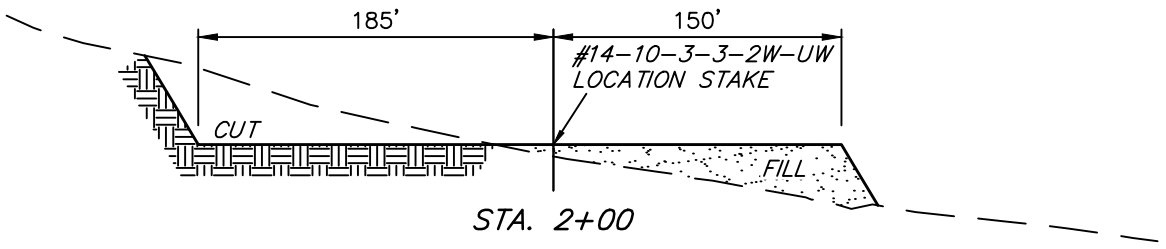
#15-10-3-2 WELL PAD FOR
UTE TRIBAL #14-10-3-3-2W-UW & RANCH #15-10-3-3-2W-MW
SECTION 10, T3S, R2W, U.S.B.&M.
SW 1/4 SE 1/4

FIGURE #2

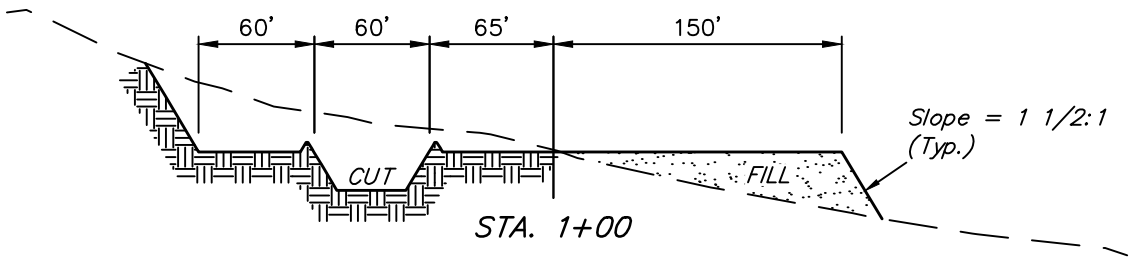




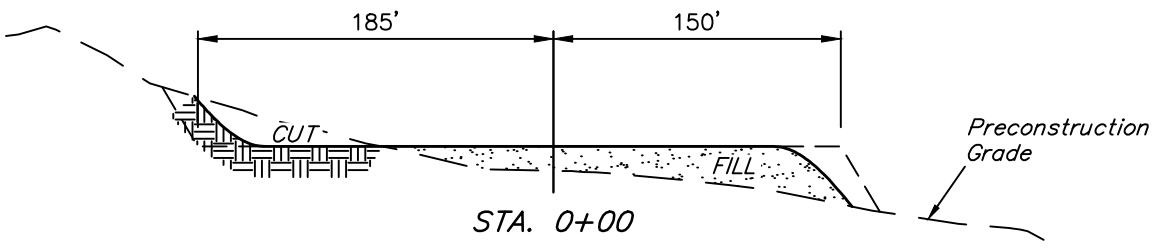
STA. 4+30



STA. 2+00



STA. 1+00



STA. 0+00

* NOTE:
FILL QUANTITY INCLUDES
5% FOR COMPACTION

APPROXIMATE ACREAGE

ORIGINAL PROPOSED WELL
SITE DISTURBANCE = ± 5.702 ACRES
NEW (ADDITIONAL TO ORIGINAL) PROPOSED
EXPANSION WELL SITE DISTURBANCE = ± 5.058 ACRES
ACCESS ROAD DISTURBANCE = ± 0.427 ACRES
PIPELINE DISTURBANCE = ± 0.204 ACRES
TOTAL = ± 11.391 ACRES

APPROXIMATE YARDAGES

(6") Topsoil Stripping	=	3,100 Cu. Yds.
Remaining Location	=	19,880 Cu. Yds.
TOTAL CUT	=	22,980 CU. YDS.
FILL	=	19,010 CU. YDS.

EXCESS MATERIAL	=	3,970 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	3,970 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	=	0 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

RECEIVED: Jun. 15, 2014

NEWFIELD EXPLORATION COMPANY

TYPICAL RIG LAYOUT FOR

#15-10-3-2 WELL PAD FOR

UTE TRIBAL #14-10-3-3-2W-UW & RANCH #15-10-3-3-2W-MW

SECTION 10, T3S, R2W, U.S.B.&M.

SW 1/4 SE 1/4

FIGURE #3

SCALE: 1" = 60'
DATE: 05-02-13
DRAWN BY: S.F.
REVISED: 07-09-13
REVISED: 11-06-13
REVISED: 12-17-13
REVISED: 04-21-14
REVISED: 05-01-14

REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH
04-22-14

Pit

Previously Approved
#2-15-22-3-2WH Well Pad

Proposed Access Road Re-Route

Proposed
Egress Road

185'

DATA

Round Corners
as Needed

200'

Cut/Fill
Transition Line

230'

CATWALK

PIPE RACKS

DOG HOUSE

RIG

30'

WATER

MUD TANKS

120'

65'

150'

TRAILER

TOILET

PUMP

MUD SHED

HOPPER

POWER

TOOLS

FUEL

35'

60'

100'

CUTTINGS PIT
(2' Berm AND 8' Deep
10' Total Depth)

Approx.
Top of
Cut Slope

Topsoil Stockpile

STORAGE
TANK

TRASH

Cuttings Pit Backfill

Pit Topsoil

Approx.
Toe of
Fill Slope

Total Pit Capacity
W/2' of Freeboard
= 6,080 Bbls.±
Total Pit Volume
= 1,740 Cu. Yds

Proposed Access Road

Proposed Pipeline for the
#13-10-3-2 Well Pad

Proposed Access Road for
the #13-10-3-2 Well Pad

UINTAH ENGINEERING & LAND SURVEYING
*85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017*

RECEIVED: Jun. 15, 2014

NEWFIELD EXPLORATION COMPANY

PRODUCTION FACILITY LAYOUT FOR

#15-10-3-2 WELL PAD FOR
UTE TRIBAL #14-10-3-3-2W-UW & RANCH #15-10-3-3-2W-MW
SECTION 10, T3S, R2W, U.S.B.&M.
SW 1/4 SE 1/4

FIGURE #4

SCALE: 1" = 60'
DATE: 05-02-13
DRAWN BY: S.F.
REVISED: 05-28-13
REVISED: 07-09-13
REVISED: 11-06-13
REVISED: 12-17-13
REVISED: 04-21-14
REVISED: 05-01-14

REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH
05-01-14

Pit

Previously Approved
#2-15-22-3-2WH Well Pad

Access Road Re-Route

Egress Road

400 BBL Tank

500 BBL Tanks

Meter Build.

Anchor (Typ.)

Separator/Heater

Cut/Fill Transition Line

RANCH #15-10-3-3-2W-MW

UTE TRIBAL #14-10-3-3-2W-UW

Anchor (Typ.)

Topsoil Stockpile

Approx. Top of Cut Slope

Approx. Toe of Fill Slope

Proposed Access Road

Pipeline for the #13-10-3-2 Well Pad

Access Road for the #13-10-3-2 Well Pad

RECLAIMED AREA

APPROXIMATE ACREAGE
UN-RECLAIMED = ± 1.380 ACRES

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

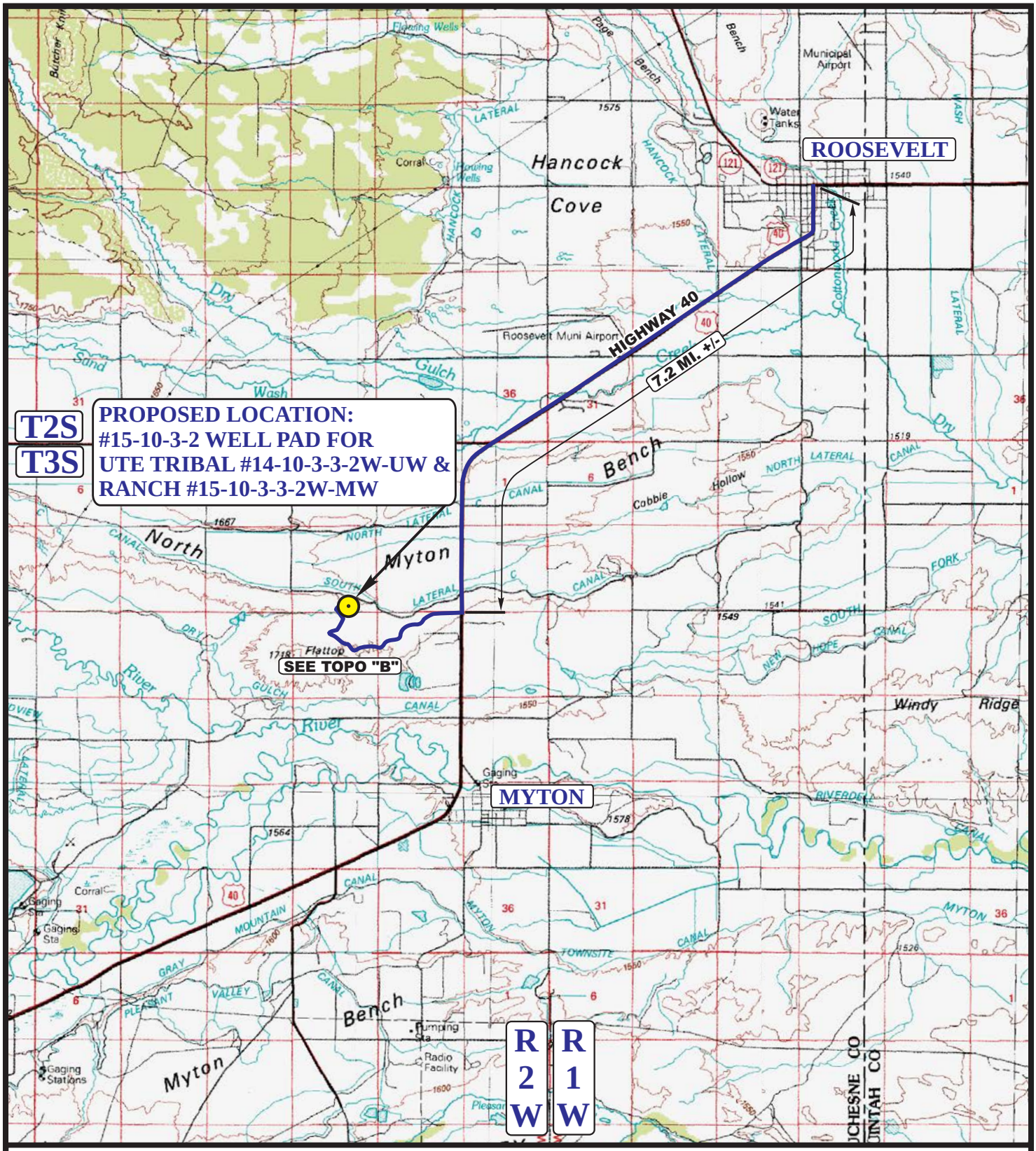
RECEIVED: Jun. 15, 2014

NEWFIELD EXPLORATION COMPANY
#15-10-3-2 WELL PAD FOR
UTE TRIBAL #14-10-3-3-2W-UW &
RANCH #15-10-3-3-2W-MW
SECTION 10, T3S, R2W, U.S.B.&M.

PROCEED IN A SOUTHERLY, THEN SOUTHWESTERLY, THEN SOUTHERLY DIRECTION FROM ROOSEVELT, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 7.2 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE #13-10-3-2 WELL PAD TO THE WEST; FOLLOW ROAD FLAGS IN A WESTERLY, THEN SOUTHWESTERLY, THEN NORTHWESTERLY, THEN NORTHEASTERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 11,803’ TO THE BEGINNING OF THE PROPOSED ACCESS TO THE NORTHEAST; FOLLOW ROAD FLAGS IN A NORTHEASTERLY DIRECTION APPROXIMATELY 262’ TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM ROOSEVELT, UTAH TO THE PROPOSED LOCATION IS APPROXIMATELY 9.5 MILES.

RECEIVED: Jun. 15, 2014



LEGEND:

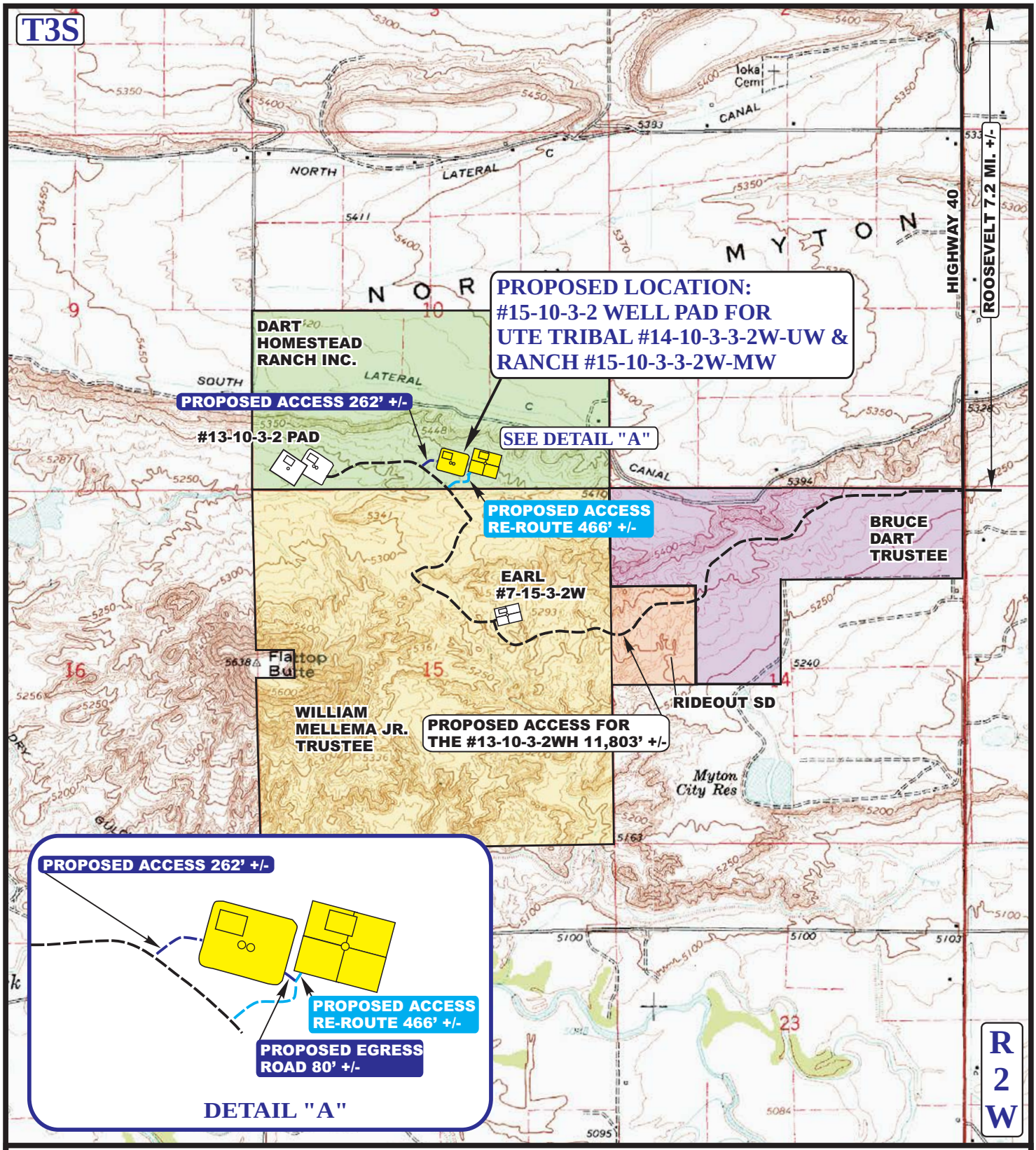
PROPOSED LOCATION

NEWFIELD EXPLORATION COMPANY

#15-10-3-2 WELL PAD FOR
UTE TRIBAL #14-10-3-3-2W-UW & RANCH #15-10-3-3-2W-MW
SECTION 10, T3S, R2W, U.S.B.&M.
SW 1/4 SE 1/4

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

ACCESS ROAD MAP	11 MONTH	15 DAY	12 YEAR	A TOPO
SCALE: 1:100,000	DRAWN BY: C.I.	REV: 05-02-14 L.S.		



LEGEND:

EXISTING ROAD

PROPOSED ACCESS ROAD

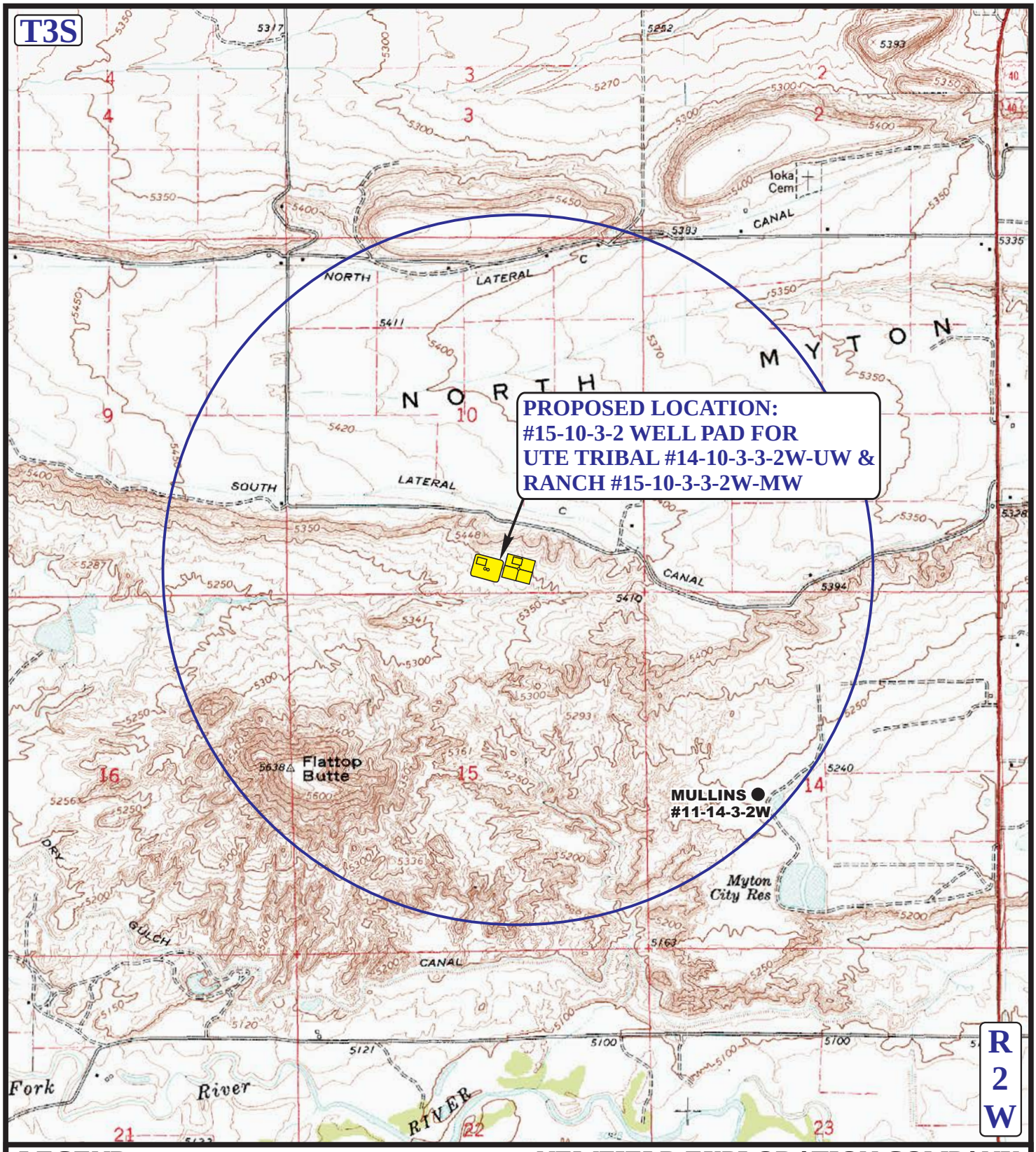
N

NEWFIELD EXPLORATION COMPANY

#15-10-3-2 WELL PAD FOR
UTE TRIBAL #14-10-3-3-2W-UW & RANCH #15-10-3-3-2W-MW
SECTION 10, T3S, R2W, U.S.B.&M.
SW 1/4 SE 1/4

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

ACCESS ROAD MAP	11 MONTH	15 DAY	12 YEAR	B TOPO
SCALE: 1" = 2000'	DRAWN BY: C.I.	REV: 05-02-14 L.S.		



LEGEND:

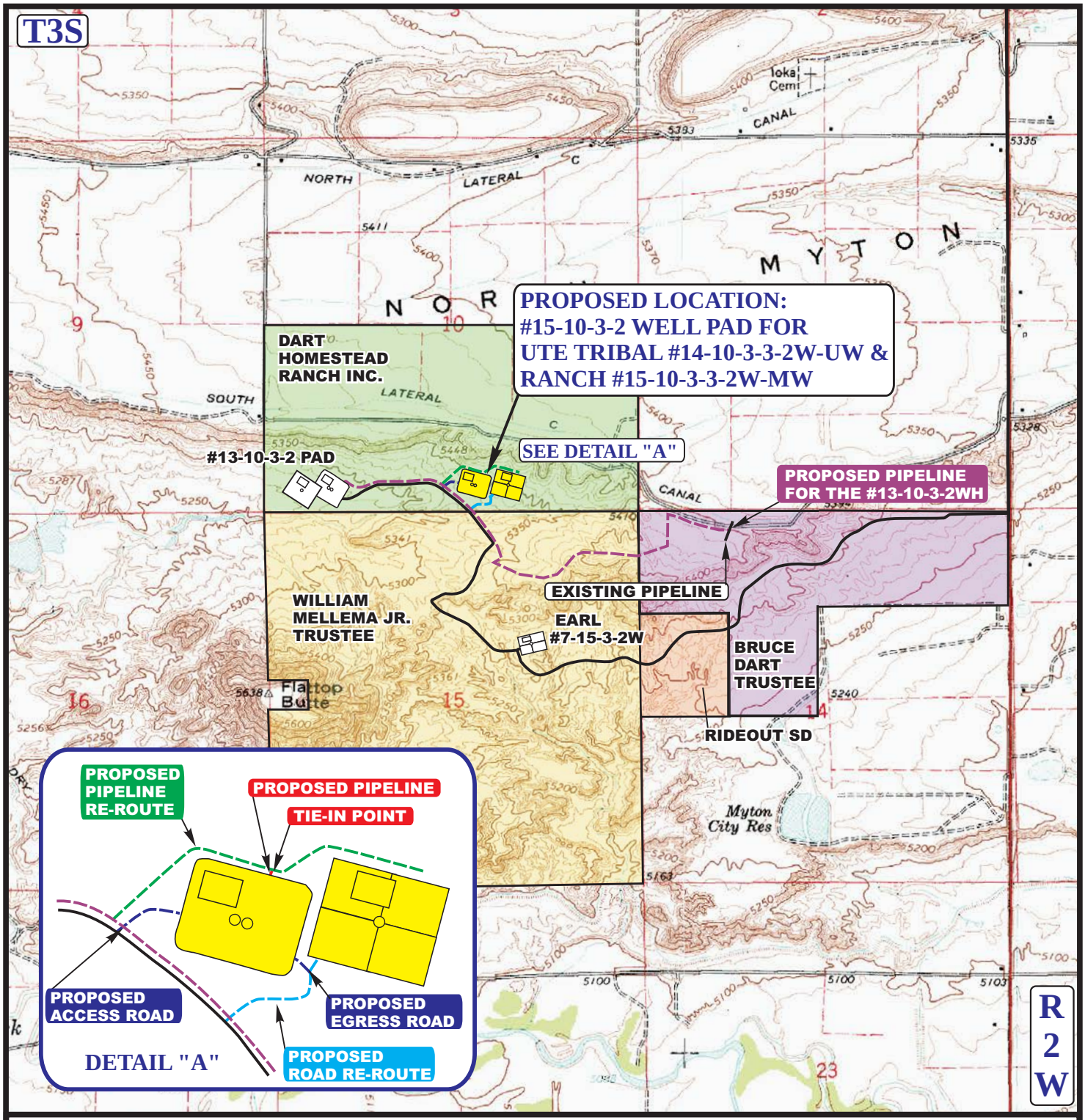
- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

NEWFIELD EXPLORATION COMPANY

#15-10-3-2 WELL PAD FOR
UTE TRIBAL #14-10-3-3-2W-UW & RANCH #15-10-3-3-2W-MW
SECTION 10, T3S, R2W, U.S.B.&M.
SW 1/4 SE 1/4

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	11 MONTH	15 DAY	12 YEAR	C TOPO
SCALE: 1" = 2000'	DRAWN BY: C.I.	REV: 05-02-14 L.S.		



APPROXIMATE TOTAL PIPELINE DISTANCE = 25' +/-

APPROXIMATE TOTAL PIPELINE RE-ROUTE DISTANCE = 1,353' +/-

LEGEND:

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE
- PROPOSED PIPELINE (SERVICING OTHER WELLS)
- PROPOSED PIPELINE RE-ROUTE

N

NEWFIELD EXPLORATION COMPANY

#15-10-3-2 WELL PAD FOR
UTE TRIBAL #14-10-3-3-2W-UW & RANCH #15-10-3-3-2W-MW
SECTION 10, T3S, R2W, U.S.B.&M.
SW 1/4 SE 1/4

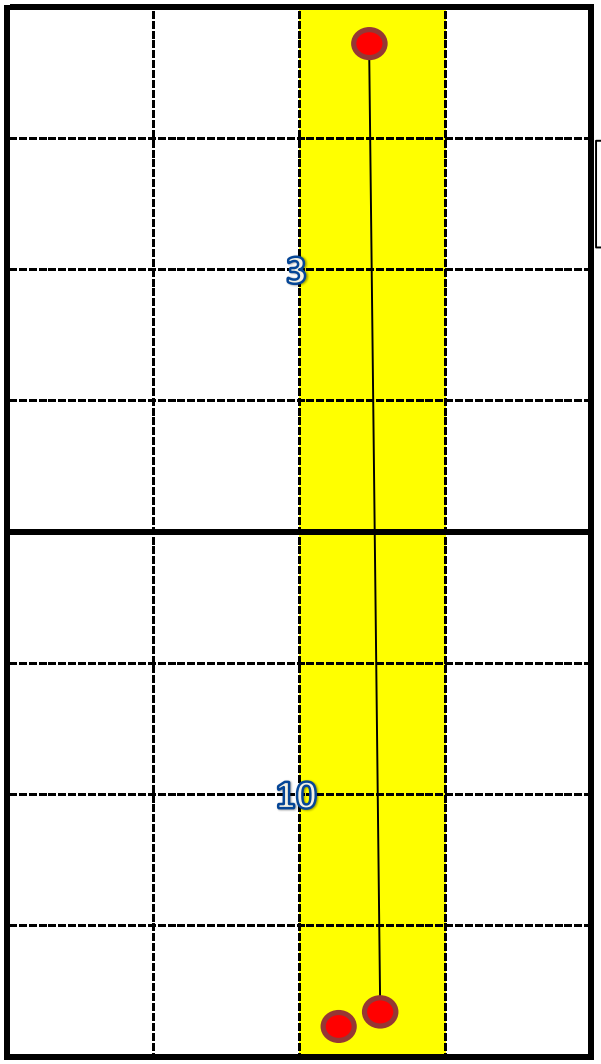
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	11 MONTH	15 DAY	12 YEAR	D TOPO
SCALE: 1" = 2000'	DRAWN BY: C.I.	REV: 05-02-14 L.S.		

Plat depiction including Lease Numbers

Ranch 15-10-3-3-2W-MW

SHL 368' FSL & 2311' FEL of Section 10
Top of Producing Interval 660' FSL & 1980' FEL of Section 10
Bottom of Producing Interval 660' FNL & 1980' FEL of Section 3
BHL 525' FNL & 1980' FEL of Section 3



Lessor: Fee Simple Interest
Legal: Sec. 3 W2E2

Lessor: Fee Simple Interest
Legal: Sec 10 W2E2

Fee Simple or State Minerals

Allotted Trust Minerals

Ute Tribe Trust Minerals

Federal Minerals

RECEIVED: Jun. 15, 2014

NEWFIELD

May 20, 2014

State of Utah
Division of Oil, Gas & Mining
ATTN: Brad Hill
PO Box 145801
Salt Lake City, UT 84114

Newfield Exploration Company
1001 17th Street | Suite 2000
Denver, Colorado 80202
PH 303-893-0102 | FAX 303-893-0103

RE: Ranch 15-10-3-3-2WH-MW
Township 3 South, Range 2 West, Sections 3 & 10
Duchesne County, Utah

Mr. Hill,

Newfield Production Company ("Newfield") proposes to drill the Ranch 15-10-3-3-2WH-MW from a surface location of 368' FSL and 2311' FEL of Section 10, T3S R2W, to a bottom hole location of 525'FNL and 1980' FEL of Section 3, T3S R2W.

The Ranch 15-10-3-3-2WH-MW is covered by Order No. 139-110, which requires no portion of the producing interval of the horizontal lateral be closer than 660' from the northern or southern section boundaries and no closer than 660' from the eastern or western section boundaries, and requires proper surface and sub-surface authorization be obtained when the surface location is located off of the drilling unit.

In compliance with the above referenced Order, the top of the uppermost producing zone of the Ranch 15-10-3-3-2WH-MW is 660' FSL and 1980' FEL of Section 10, T3S, R2W, and the bottom of the producing interval is 660' FNL, 1980' FEL of Section 3, T3S, R2W. Newfield shall case and cement the Ranch 15-10-3-3-2WH-MW wellbore from the surface location to the point where the wellbore reaches the legal setback and the wellbore will only be completed within the legal setback. The bottom of the producing interval is 660' FNL, 1980' FEL of Section 3, T3S, R2W, which is within the legal setback. In the event a future recompletion outside of this setback is proposed, Newfield shall attempt to acquire consent from all the owners in Section 34, T2S, R2W, or Section 15, T3S, R2W, and shall file the appropriate application with the State.

Newfield has also obtained authorization from the surface owner of the drilling location, as is evidenced by the Affidavit of Easement, Right-of-Way and Surface Use Agreement attached to the APD. Newfield and its partners are the leasehold owners of the minerals underlying the surface location and all that portion of the wellbore of the Ranch 15-10-3-3-2WH-MW lying outside the drilling unit.

Based on Newfield's compliance with the requirements of Order No. 139-110, Newfield respectfully requests the approval of our APD for the Ranch 15-10-3-3-2WH-MW.

If you have any questions or require further information, please do not hesitate to contact the undersigned at 303-382-4466 or by email at rnmiller@newfield.com. Your consideration of this matter is greatly appreciated.

Sincerely,

Robert N. Miller II
Landman

AFFIDAVIT OF EASEMENT, RIGHT-OF-WAY AND SURFACE USE AGREEMENT

Greg Boggs personally appeared before me, being duly sworn, deposes and with respect to State of Utah R649-3-34.7 says:

1. My name is Greg Boggs. I am a Land Lead for Newfield Production Company, whose address is 1001 17th Street, Suite 2000, Denver, CO 80202 ("Newfield").

2. Newfield is the Operator of the proposed 15-10-3-2 well pad with a surface location to be positioned in the SWSE of Section 10, Township 3 South, Range 2 East (the "Well Pad"), Duchesne County, Utah. The surface owner of the Drillsite Location is Dart Homestead Ranch, whose address is Route 2, Box 2044, Roosevelt, UT 84066 ("Surface Owner").

3. Newfield and the Surface Owner have agreed upon an Easement, Right-of-Way, Surface Use and Damage Agreement dated February 28, 2014 covering the Well Pad and access to the Well Pad.

FURTHER AFFIANT SAYETH NOT.

Greg Boggs

ACKNOWLEDGEMENT

STATE OF COLORADO §
§
COUNTY OF DENVER §

Before me, a Notary Public, in and for the State, on this 5th day of June, 2014, personally appeared Greg Boggs, to me known to be the identical person who executed the foregoing instrument, and acknowledged to me that he executed the same as his own free and voluntary act and deed for the uses and purposes therein set forth.

NOTARY PUBLIC

My Commission Expires: 12.14.15

CHEMEANE FARIS
Notary Public
State of Colorado

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: Patented

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: RANCH 15-10-3-3-2W-MW

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 43013522960000

3. ADDRESS OF OPERATOR: 1001 17th Street, Suite 2000 , Denver, CO, 80202

PHONE NUMBER: 303 382-4443 Ext

9. FIELD and POOL or WILDCAT: NORTH MYTON BENCH

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0368 FSL 2311 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 10 Township: 03.0S Range: 02.0W Meridian: U

COUNTY: DUCHESNE

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 8/12/2014	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Pit Enlargement

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The sundry is being submitted to request approval of expanding the proposed lined pit from 60' X 100' to 100' X 140' (revised diagram attached). The proposed expansion will allow for sufficient capacity of drill cuttings from the RANCH 15-10-3-3-2W-MW and Ute Tribal 14-10-3-3-2W-UW (43-013-52297), which located at this pad (15-10-3-2 pad). No new disturbance will occur.

Accepted by the Utah Division of Oil, Gas and Mining
Date: August 18, 2014
By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Matt Barber	303 382-4493	Senior Regulatory Specialist

SIGNATURE	DATE
N/A	8/12/2014

NEWFIELD EXPLORATION COMPANY

LOCATION LAYOUT FOR

#15-10-3-2 WELL PAD FOR
UTE TRIBAL #14-10-3-3-2W-UW & RANCH #15-10-3-3-2W-MW
SECTION 10, T3S, R2W, U.S.B.&M.
SW 1/4 SE 1/4

FIGURE #1

SCALE: 1" = 60'
DATE: 05-02-13
DRAWN BY: S.F.
REVISED: 05-28-13
REVISED: 07-09-13
REVISED: 11-06-13
REVISED: 12-17-13
REVISED: 04-21-14
REVISED: 05-01-14
REVISED: 07-02-14

REGISTERED LAND SURVEYOR
No. 161319
ROBERT L.
STATE OF UTAH
07-07-14

Wmds
Prevailing
Pit
Previously Approved
#2-15-22-3-2WH Well Pad
Previously Approved
Surface Use Area
for the #2-15-22-3-2WH
Well Pad
Proposed Access Road Re-Route
Proposed
Egress Road
F-8.3'
El. 37.9'
Approx.
Toe of
Fill Slope
C-14.5'
El. 60.7'
185'
F-1.6'
El. 44.6'
Sta. 4+80
Round Corners
as Needed
NOTE:
Earthwork Calculations Require a
Fill @ the Location Stakes
For Balance. All Fill is to be
Compacted to a Minimum of 95%
of the Maximum Dry Density
Obtained by AASHTO Method t-99.
Approx.
Top of
Cut Slope
200'
230'
Cut/Fill
Transition Line
Topsoil Stockpile
F-1.6'
El. 44.6'
#15-10
C-15.6'
El. 61.8'
120'
65'
30'
150'
Sta. 2+50
El. 59.2'
C-23.0'
(Btm. Pit)
#14-10
F-2.5'
El. 43.7'
F-12.5'
El. 33.7'
35'
100'
C-3.8'
El. 50.0'
CUTTINGS PIT
(2' Berm AND 10' Deep
12' Total Depth)
140'
20' WIDE BENCH
1 1/2:1 SLOPE
Total Pit Volume
With 2' Berm
= 5,050 Cu. Yds
Total Pit Volume
Without 2' Berm
= 3,960 Cu. Yds
Sta. 1+50
Cuttings Pit Backfill
F-1.8'
El. 44.4'
F-5.9'
El. 40.3'
El. 55.2'
C-19.0'
(Btm. Pit)
140'
C-7.4'
El. 53.6'
50'
F-6.7'
El. 39.5'
Pit Topsoil
F-11.9'
El. 34.3'
195'
Sta. 0+00
C-5.7'
El. 51.9'
Proposed Surface Use
Area Expansion
F-8.5'
El. 37.7'
Proposed Access Road
Proposed Pipeline for the
#13-10-3-2 Well Pad
Proposed Access Road for
the #13-10-3-2 Well Pad

NOTE:

- THE PROPOSED TOP OF PRODUCING FORMATION FOR THE UTE TRIBAL #14-10-3-3-2W-UW WELL BEARS N73°59'41"W 1020.52' FROM THE PROPOSED WELL HEAD.

  THE PROPOSED BOTTOM OF PRODUCING INTERVAL FOR THE UTE TRIBAL #14-10-3-3-2W-UW WELL BEARS N00°06'09"W 9214.67' FROM THE PROPOSED TOP OF PRODUCING FORMATION.

  THE PROPOSED TARGET BOTTOM HOLE FOR THE UTE TRIBAL #14-10-3-3-2W-UW WELL BEARS N00°23'07"W 135.00' FROM THE PROPOSED BOTTOM OF PRODUCING INTERVAL.

- THE PROPOSED TOP OF PRODUCING FORMATION FOR THE RANCH #15-10-3-3-2W-MW WELL BEARS N48°23'22"E 441.29' FROM THE PROPOSED WELL HEAD.

  THE PROPOSED BOTTOM OF PRODUCING INTERVAL FOR THE RANCH #15-10-3-3-2W-MW WELL BEARS N00°06'30"W 9227.71' FROM THE PROPOSED TOP OF PRODUCING FORMATION.

  THE PROPOSED TARGET BOTTOM HOLE FOR THE RANCH #15-10-3-3-2W-MW WELL BEARS N00°02'41"E 135.01' FROM THE PROPOSED BOTTOM OF PRODUCING INTERVAL.

Elev. Ungraded Ground At #14-10-3-3-2W-UW Loc. Stake = 5343.7'
FINISHED GRADE ELEV. AT #14-10-3-3-2W-UW LOC. STAKE = 5346.2'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

RECEIVED: Aug. 12, 2014

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Pete Martin Rig #16
Submitted By Kylan Cook Phone Number 435-790-8236
Well Name/Number Ranch 15-10-3-3-2W-MW
Qtr/Qtr SW/SE Section 10 Township 3S Range 2W
Lease Serial Number Patented
API Number 43-013-52296

CONFIDENTIAL

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 08/26/2014 09:30 AM ☒ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☐ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time _____ _____ AM ☐ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

Date/Time _____ _____ AM ☐ PM ☐

Remarks _____

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
Patented

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Oil Well

8. WELL NAME and NUMBER:
RANCH 15-10-3-3-2W-MW

2. NAME OF OPERATOR:
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:
43013522960000

3. ADDRESS OF OPERATOR:
Rt 3 Box 3630 , Myton, UT, 84052

PHONE NUMBER:
435 646-4825 Ext

9. FIELD and POOL or WILDCAT:
NORTH MYTON BENCH

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
0368 FSL 2311 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SWSE Section: 10 Township: 03.0S Range: 02.0W Meridian: U

COUNTY:
DUCHESNE

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
✓ SPUD REPORT Date of Spud: 8/27/2014	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Pete Martin Rig #16 spudded 26" hole on 08/27/2014 and drilled to 60' GL. Set 20", 52.78# (0.250" wall), SA53B conductor pipe at 60' GL and cemented to surface with Redi Mix. Kylan Cook notified UDOGM and BLM by e-mail @ 21:30 PM on 08/24/2014 to spud conductor hole on 08/26/2014. (Spud date pushed back due to rain/construction of location.)

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
September 11, 2014

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Cherei Neilson	435 646-4883	Drilling Techinacian
SIGNATURE		**DATE**
N/A		9/11/2014

RECEIVED: Sep. 11, 2014

NEWFIELD

Casing

Conductor

Legal Well Name	Wellbore Name
Ranch 15-10-3-3-2W-MW	Original Hole

API/UWI	Surface Legal Location	Field Name	Well Type	Well Configuration Type
43013522960000	SWSE 368FSL 2311FEL SEC10 T3S R2W MERU	UINTA CB-WASATCH HORZ	Development	Horizontal

Well RC	County	State/Province	Spud Date	Final Rig Release Date
500378194	Duchesne	Utah		

Wellbore

Wellbore Name	Kick Off Depth (ftKB)
Original Hole	

Section Des	Size (in)	Actual Top Depth (MD) (ftKB)	Actual Bottom Depth (MD) (ftKB)	Start Date	End Date
Conductor	26	0	60	8/27/2014	8/27/2014

Wellhead

Type	Install Date	Service	Comment

Wellhead Components

Des	Make	Model	SN	WP Top (psi)

Casing

Casing Description	Set Depth (ftKB)	Run Date	Set Tension (kips)
Conductor	60	8/27/2014	

Centralizers	Scratchers

Casing Components

Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)	Mk-up Tq (ft•lb)	Class	Max OD (in)
Conductor Pipe	20	19.500	52.78	SA53B	Welded	2	60.00	0.0	60.0			

Jewelry Details

External Casing Packer

Type	Setting Requirement	Release Requirements	Inflation Method	Vol Inflation (gal)	Equiv Hole Sz (in)

Inflation Fluid Type	Infl Fl Dens (lb/gal)	P AV Set (psi)	AV Acting Pressure (psi)	P ICV Set (psi)	P ICV Act (psi)	ECP Load (1000lbf)	Seal Load (1000lbf)

Slotted Liner

% Open Area (%)	Perforation Min Dimension (in)	Perforation Max Dimension (in)	Axial Perf Spacing (ft)	Perf Rows	Blank Top Length (ft)	Blank Bottom Length (ft)

Slot Description	Slot Pattern	Slot Length (in)	Slot Width (in)	Slot Frequency	Screen Gauge (ga)

Liner Hanger

Retrievable?	Elastomer Type	Element Center Depth (ft)	Polish Bore Size (in)	Polish Bore Length (ft)

Slip Description	Set Mechanics

Setting Procedure

Unsetting Procedure

RECEIVED: Sep. 11, 2014

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: Patented

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: RANCH 15-10-3-3-2W-UW

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 43013522960000

3. ADDRESS OF OPERATOR: 1001 17th Street, Suite 2000 , Denver, CO, 80202

PHONE NUMBER: 303 382-4443 Ext

9. FIELD and POOL or WILDCAT: NORTH MYTON BENCH

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0368 FSL 2311 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 10 Township: 03.0S Range: 02.0W Meridian: U

COUNTY: DUCHESNE

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 10/31/2014	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	✓ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Newfield Production Company respectfully requests that the Ranch 15-10-3-3-2W-MW decrease in drilling depths from 9,908 ft TVD / 19,194 ft MD to 9,723 ft TVD / 18,975 ft MD and that the well name be changed to the Ranch 15-10-3-3-2W-UW (see attached for details and supplemental information). Surface, Top of Producing Production, Bottom or Producing Production, and Bottom Hole Location footages all remain the same.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
October 23, 2014

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Matt Barber	303 382-4493	Senior Regulatory Specialist
SIGNATURE N/A		**DATE** 10/21/2014

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T3S, R2W, U.S.B.&M.

NEWFIELD EXPLORATION COMPANY

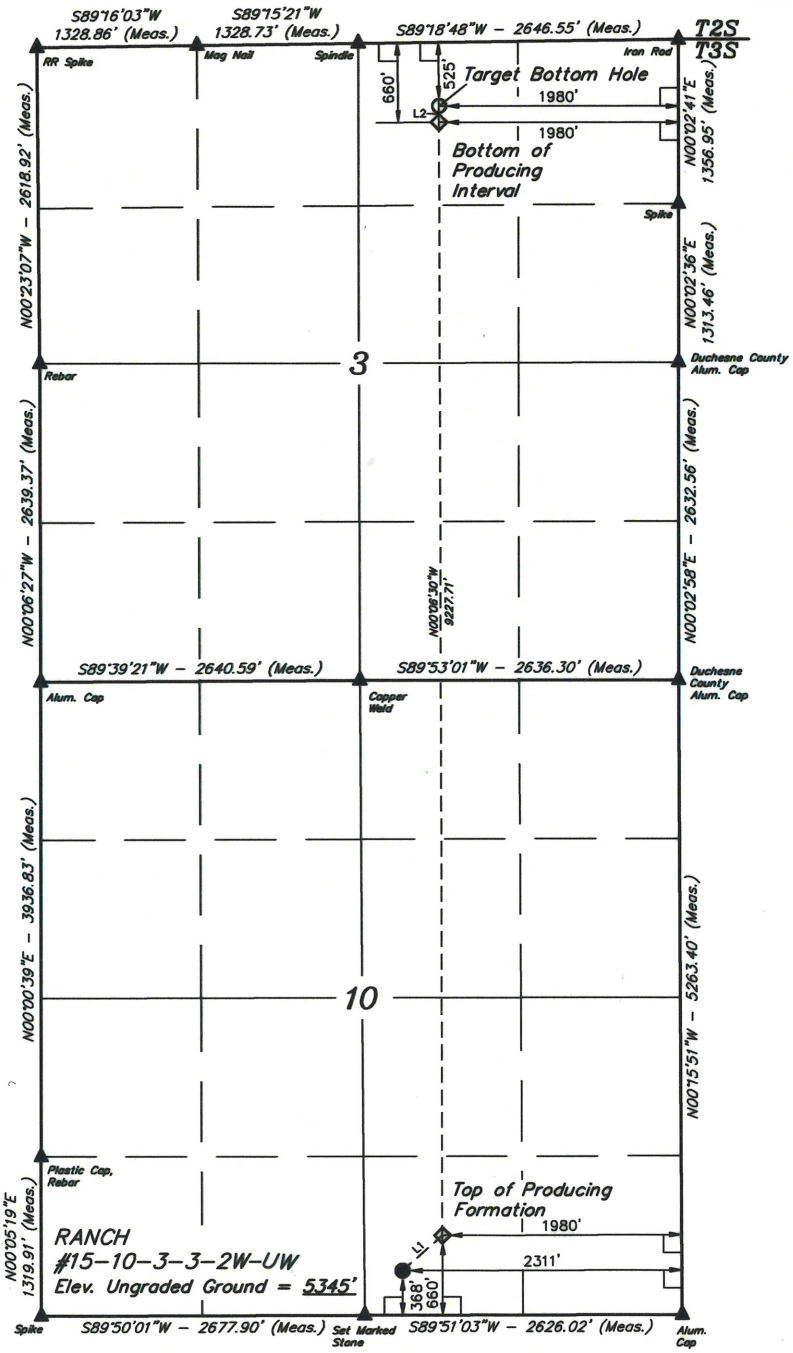
Well location, RANCH #15-10-3-3-2W-UW, located as shown in the SW 1/4 SE 1/4 of Section 10, T3S, R2W, U.S.B.&M., Duchesne County, Utah.

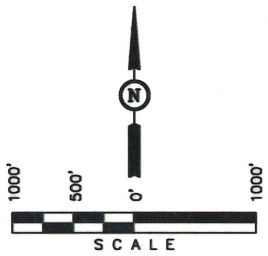
BASIS OF ELEVATION

SPOT ELEVATION LOCATED AT THE SOUTHEAST CORNER OF SECTION 20, T3S, R2W, U.S.B.&M. TAKEN FROM THE MYTON, QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5148 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.





NAD 83 (SURFACE LOCATION)
LATITUDE = 40°13'49.99" (40.230553)
LONGITUDE = 110°05'40.34" (110.094539)
NAD 27 (SURFACE LOCATION)
LATITUDE = 40°13'50.14" (40.230594)
LONGITUDE = 110°05'37.80" (110.093833)
NAD 83 (TOP OF PRODUCING FORMATION)
LATITUDE = 40°13'52.89" (40.231358)
LONGITUDE = 110°05'36.08" (110.093356)
NAD 27 (TOP OF PRODUCING FORMATION)
LATITUDE = 40°13'53.03" (40.231397)
LONGITUDE = 110°05'33.54" (110.092650)
NAD 83 (BOTTOM OF PRODUCING INTERVAL)
LATITUDE = 40°15'24.05" (40.256681)
LONGITUDE = 110°05'36.27" (110.093408)
NAD 27 (BOTTOM OF PRODUCING INTERVAL)
LATITUDE = 40°15'24.20" (40.256722)
LONGITUDE = 110°05'33.73" (110.092703)
NAD 83 (TARGET BOTTOM HOLE)
LATITUDE = 40°15'25.39" (40.257053)
LONGITUDE = 110°05'36.27" (110.093408)
NAD 27 (TARGET BOTTOM HOLE)
LATITUDE = 40°15'25.54" (40.257094)
LONGITUDE = 110°05'33.72" (110.092700)

LEGEND:

- ∟ = 90° SYMBOL
- ● = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N48°23'22"E	441.29'
L2	N00°02'41"E	135.01'

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

REVISED: 04-18-14
REVISED: 12-17-13
REVISED: 11-06-13

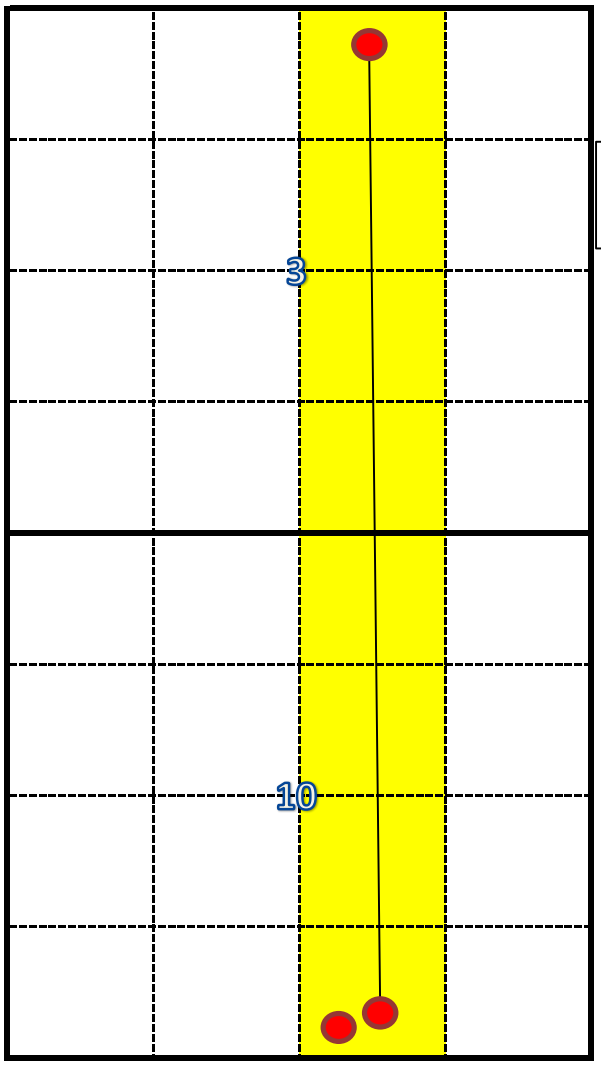
UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE	DATE SURVEYED:	DATE DRAWN:
1" = 1000'	04-22-13	05-28-13
PARTY: C.A. R.L.L. S.F.	REFERENCES: G.L.O. PLAT	
WEATHER: WARM	FILE: NEWFIELD EXPLORATION COMPANY	

Plat depiction including Lease Numbers

Ranch 15-10-3-3-2W-UW

SHL 378' FSL & 2311' FEL of Section 10
Top of Producing Interval 660' FSL & 1980' FWL of Section 10
Bottom of Producing Interval 660' FNL & 1980' FWL of Section 3
BHL 525' FNL & 1980' FWL of Section 3



Lessor: Fee Simple Interest
Legal: Sec. 3 W2E2

Lessor: Fee Simple Interest
Legal: Sec 10 W2E2

Fee Simple or State Minerals

Allotted Trust Minerals

Ute Tribe Trust Minerals

Federal Minerals

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Newfield Production Company
15-10-3-3-2W-UW
Surface Hole Location: 368' FSL, 2311' FEL, Section 10, T3S, R2W
Bottom Hole Location: 525' FNL, 1980' FEL, Section 3, T3S, R2W
Duchesne County, UT

Drilling Program

1. Formation Tops

Uinta	surface
Green River	3,737'
Garden Gulch	6,591'
Uteland Butte Member	8,836'
Wasatch	8,969'
Lateral TD	9,723' TVD / 18,975' MD

2. Depth to Oil, Gas, Water, or Minerals

Base of moderately saline	2,197'		(water)
Green River	6,591'	- 8,969'	(oil)
Wasatch	8,969'	- 9,723'	(oil)

3. Pressure Control

Section	BOP Description
Surface	Diverter
Intermediate	The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc for a 5M system.
Prod/Prod Liner	The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc for a 5M system. A 5M BOP system will consist of 2 ram preventers (double or two singles) and an annular preventer (see attached diagram). A choke manifold rated to at least 5,000 psi will be used.

4. Casing

Description	Interval		Weight (ppf)	Grade	Coup	Pore Press @ Shoe	MW @ Shoe	Frac Grad @ Shoe	Safety Factors		
	Top	Bottom (TVD/MD)							Burst	Collapse	Tension
Conductor 20	0'	60'	--	--	Weld	--	--	--	-- --	-- --	-- --
Surface 13 3/8	0'	1,656'	54.5	J-55	STC	8.33	8.4	14	2,730 2.62	1,130 2.38	514,000 5.70
Intrm Drilling 9 5/8	0'	8,453' 8,483'	40	N-80	BTC	10	10.5	16	5,750 1.31	3,090 1.34	916,000 2.71
Production 5 1/2	0'	9,723' 18,975'	20	P-110	BTC	14	14.5	17	12,360 2.20	11,080 1.89	641,000 1.69

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Assumptions:

Surface casing MASP = (frac gradient + 1.0 ppg) - (gas gradient)
Intermediate casing drilling MASP = 0.5 ppg gas kick with a 70 bbl gain and frac at the shoe with a 1 ppg safety factor
Production casing MASP = (reservoir pressure) - (gas gradient)
Intermediate collapse calculations assume 50% evacuated
Maximum intermediate csg collapse load assumes loss of mud to a fluid level of 4,227'
Intermediate csg run from surface to 8,453' and will not experience full evacuation
Production csg run from surface to TD will isolate intermediate csg from production loads
Production csg withstands burst and collapse loads for anticipated production conditions
Surface & production collapse calcs assume fully evacuated casing w/ a gas gradient
All tension calculations assume air weight of casing
Gas gradient = 0.15 psi/ft

All casing shall be new.
All casing strings shall have a minimum of 1 centralizer on each of the bottom 3 joints.

5. Cement

Job	Hole Size	Fill	Slurry Description	ft^3 / sacks	OH excess	Weight (ppg)	Yield (ft^3/sk)
Conductor	24	60'	Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake	66 / 57	15%	15.8	1.17
Surface Lead	17 1/2	1,000'	Varicem (Type III) + .125 lbs/sk Cello Flakes	799 / 240	15%	11.0	3.33
Surface Tail	17 1/2	656'	Varicem (Type III) + .125 lbs/sk Cello Flakes	524 / 276	15%	13.0	1.9
Intermediate Lead	12 1/4	6,591'	HLC Premium - 35% Poz/65% Glass G + 10% bentonite	2374 / 673	15%	11.0	3.53
Intermediate Tail	12 1/4	1,892'	50/50 Poz/Class G + 1% bentonite	681 / 528	15%	14.0	1.29
Production Lead	8 3/4	1,621'	Elastiseal Unfoamed	450 / 245	10%	17.3	1.84
Production Tail	8 3/4	9,371'	Elastiseal Foamed	2367 / 1287	0%	14.5 - 17.3	1.84

The surface casing will be cemented to surface. In the event that cement does not reach surface during the primary cement job, a remedial job will be performed.

Actual cement volumes for the intermediate casing string will be calculated from an open hole caliper log or gauge hole if logs are not ran, plus 15% excess.

The 5.5" production string will be run from surface to TD and cemented to setback. The cement slurries will be adjusted for hole conditions and blend test results. The lateral will be cemented past the setback.

The wellbore will cross the heal setback @ 9,604' MD
The first perforation will be within 18,840' MD

Per the directional plan, the bore hole will be drilled 135' past the toe setback for the rat hole and shoe track. This well will not be perforated or produced outside the legal setbacks.

6. Type and Characteristics of Proposed Circulating Medium

Interval	Description
Surface - 1,656'	An air and/or fresh water system will be utilized. If an air rig is used, the blooie line discharge may be less than 100' from the wellbore in order to minimize location size. The blooie line is not equipped with an automatic igniter. The air compressor may be located less than 100' from the well bore due to the low possibility of combustion with the air/dust mixture. Water will be on location to be used as kill fluid, if necessary.

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1,656' - 8,483' A water based mud system will be utilized. Hole stability may be improved with additions of KCl or a similar inhibitive substance. In order to control formation pressure the system will be weighted with additions of bentonite, and if conditions warrant, with barite.

Anticipated maximum mud weight is 10.5 ppg.

8,483' - TD One of two possible mud systems may be used depending on offset well performance on ongoing wells: A water based mud: Hole stability may be improved with additions of KCl or a similar inhibitive substance. In order to control formation pressure the system will be weighted with additions of bentonite, and if conditions warrant, with barite.

-or-

A diesel based OBM system: with an oil to water ratio between 70/30 and 80/20. Emulsifiers and wetting agents will be used to maintain adequate mud properties. A water phase salinity will be maintained in the range of 25% using CaCl (Calcium Chloride). All cuttings will be dried and centrifuged so that they can be easily transferred to a lined cuttings pit with little to no free fluid on them. The cuttings will be mixed with fly ash prior to transportation to a location on Newfield owned surface. Once on Newfield owned surface, the cuttings will be treated with the previously approved FIRMUS process and used as a construction material on future location and/or roads on Newfield owned surface. The cuttings may also be transported to a state approved disposal facility.

Anticipated maximum mud weight is 14.5 ppg.

7. Logging, Coring, and Testing

Logging: A dual induction, gamma ray, and caliper log may be run from KOP to the base of the surface casing. An azimuthal gamma ray LWD log will be run from the shoe of the intermediate casing to TD. A cement bond log will be run from KOP to the cement top behind the production casing and or intermediate casing.

Cores: As deemed necessary.

DST: There are no DST's planned for this well.

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8. Anticipated Abnormal Pressure or Temperature

Maximum anticipated bottomhole pressure will be approximately equal to total depth (feet) multiplied by a 0.73 psi/ft gradient.

9,723' x 0.73 psi/ft = 7078.3 psi

No abnormal temperature is expected. No H_2S is expected.

9. Other Aspects

The lateral of this well will target the Wasatch formation
After setting 9-5/8" casing, an 8-3/4" vertical hole will be drilled to a kick off point of 8,433'
Directional tools will then be used to build to 86.81 degrees inclination.
The lateral will be drilled to the bottomhole location shown on the plat. A 5-1/2" longstring will be run from surface to TD and cemented in place.

Newfield requests the following variances from Onshore Order #2:
- Variance from Onshoer Order #2, III.E.1
  Refer to Newfield Production Company Standard Operating Practices "Ute Tribal Green River Development Program" paragraph 9.0

If oil based mud (OBM) is used and If Newfield owns the surface rights on the same drilling site at a location where construction is desired, the cuttings may be used for construction by a Firmus® process at that location. Otherwise, after the cuttings have been made safe for transport as described in paragraph 6, they will be transported to another location on which Newfield owns surface rights and there mixed, as part of a Firmus® process, with at least one additional chemical that will convert them to a temporarily uncured cementitious mixture that will be placed and shaped into a temporary desired final structure that will spontaneously harden within seven days after placement to form the desired structure. Samples of the temporary desired final structure may be taken for testing as described below (after the samples have hardened), or samples of the starting pretreated cuttings and mud will be taken during the construction and later mixed in a laboratory, molded, and cured to simulate the final structure as well as reasonably possible. Either these laboratory-made simulations of the final structure or samples of the temporary mixture itself after hardening, will be mechanically tested directly to determine their unconfined compressive strength and their hydraulic conductivity. Leachates of the mechanically tested structures themselves or of finer particles made by crushing and size-grading of the mechanically tested structures themselves to a specified particle size range will be analyzed, according to specified methods, for their contents of arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, zinc, benzene, total petroleum hydrocarbons (TPH), and chlorides, and the pH of these leachates will also be measured. The results of all these tests will be reported by Newfield to UDOGM at intervals as requested, along with the latitude and longitude (or other comparable location data) of the site of the useful constructions built.

Water flows in the surface hole are likely. If the water flow is less than 400 bbls/hr, the well will be allowed to flow until the surface casing point is reached and water will be hauled off location. If the water flow is greater than 400 bbls/hr, the water flow will be controlled with kill weight mud which will be maintained until TD. In both situations, the cement density will be adjusted to meet or exceed the mud weight needed to kill the water flow and the well will be shut in once cement is in place. If cement fails to reach the surface or falls back, a top job will be performed to bring cement to surface. Any water flows will be sampled and tested and results will be sent to UDOGM.

A diveter will be used to drill the surface hole interval.

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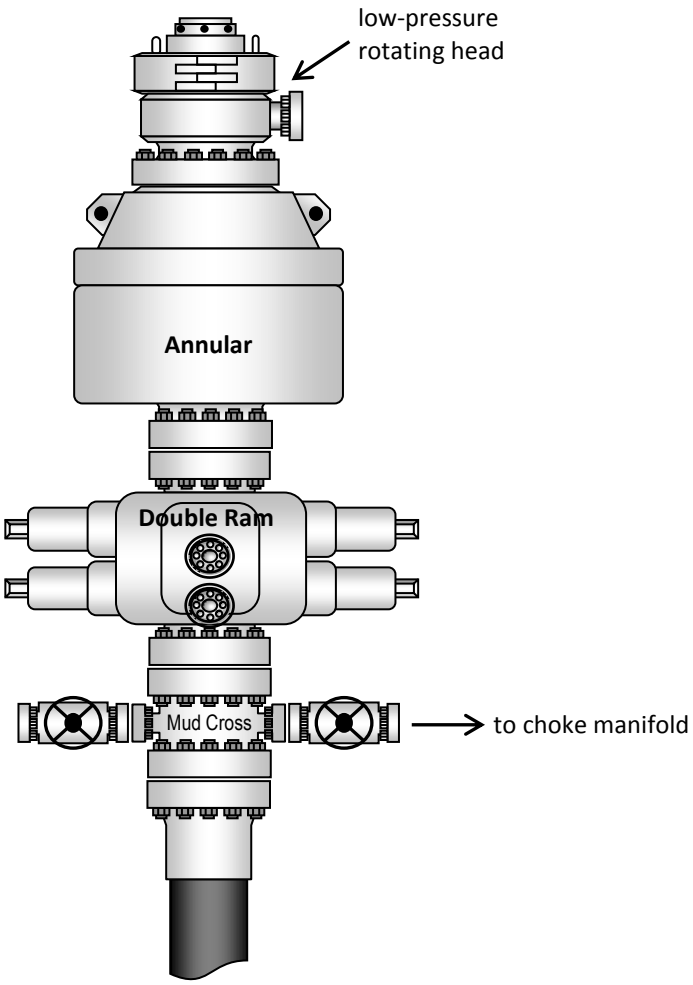
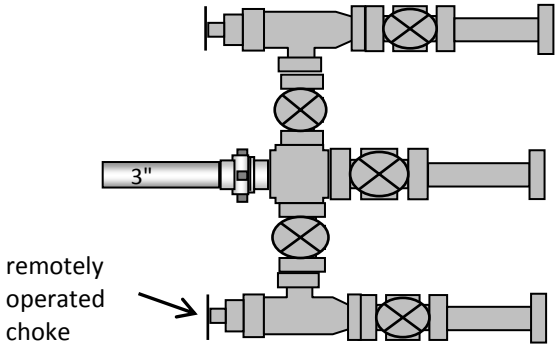
Typical 5M BOP stack configuration



Typical 5M choke manifold configuration



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5D Plan Report

Field Name:	*UTAH_ CENTRAL ZONE_NAD83*
Site Name:	*15-10-3-3-2W-UW*
Well Name:	*15-10-3-3-2W-UW*
Plan:	*PLAN 1*

30 September 2014

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NEWFIELD

Weatherford

Field: UTAH_CENTRAL ZONE_NAD83
Map Unit: USFt Vertical Reference Datum (VRD):
Projected Coordinate System: NAD83 / Utah Central (ftUS)

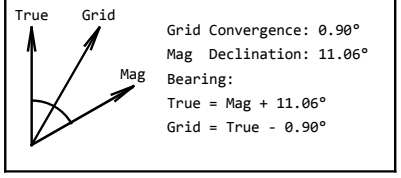
Site: 15-10-3-3-2W-UW
Unit: USFeet TVD Reference:
Company Name:
Position: Northing: 7255788.07USft Latitude: 40.230553°
Easting: 2032800.87USft Longitude: -110.094539°
North Reference: True Grid Convergence: 0.90°
Elevation Above VRD: 5345.00USft
Comment: DUCHESNE COUNTY, UTAH

Slot: 15-10-3-3-2W-UW
Position:
Offset is from Site centre
+N/-S: 0.00USft Northing: 7255788.07USft Latitude: 40.230553°
+E/-W: 0.00USft Easting: 2032800.87USft Longitude: -110.094539°
Elevation Above VRD: 5345.00USft
Comment: DUCHESNE COUNTY, UTAH (368' FSL & 2311' FEL, SEC 10)

Well: 15-10-3-3-2W-UW
Type: Main-Well
File Number:
Vertical Section: Position offset of origin from Slot centre:
+N/-S: 0.00USft Azimuth: 1.87°
+E/-W: 0.00USft
Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
BGGM 51967(nT) 11.06° 65.85° 2014-09-30
Comment: PATTERSON 290 (28' RKB)

Plan Point Information:
DogLeg Severity Unit: °/100.00ft Position offsets from Slot centre

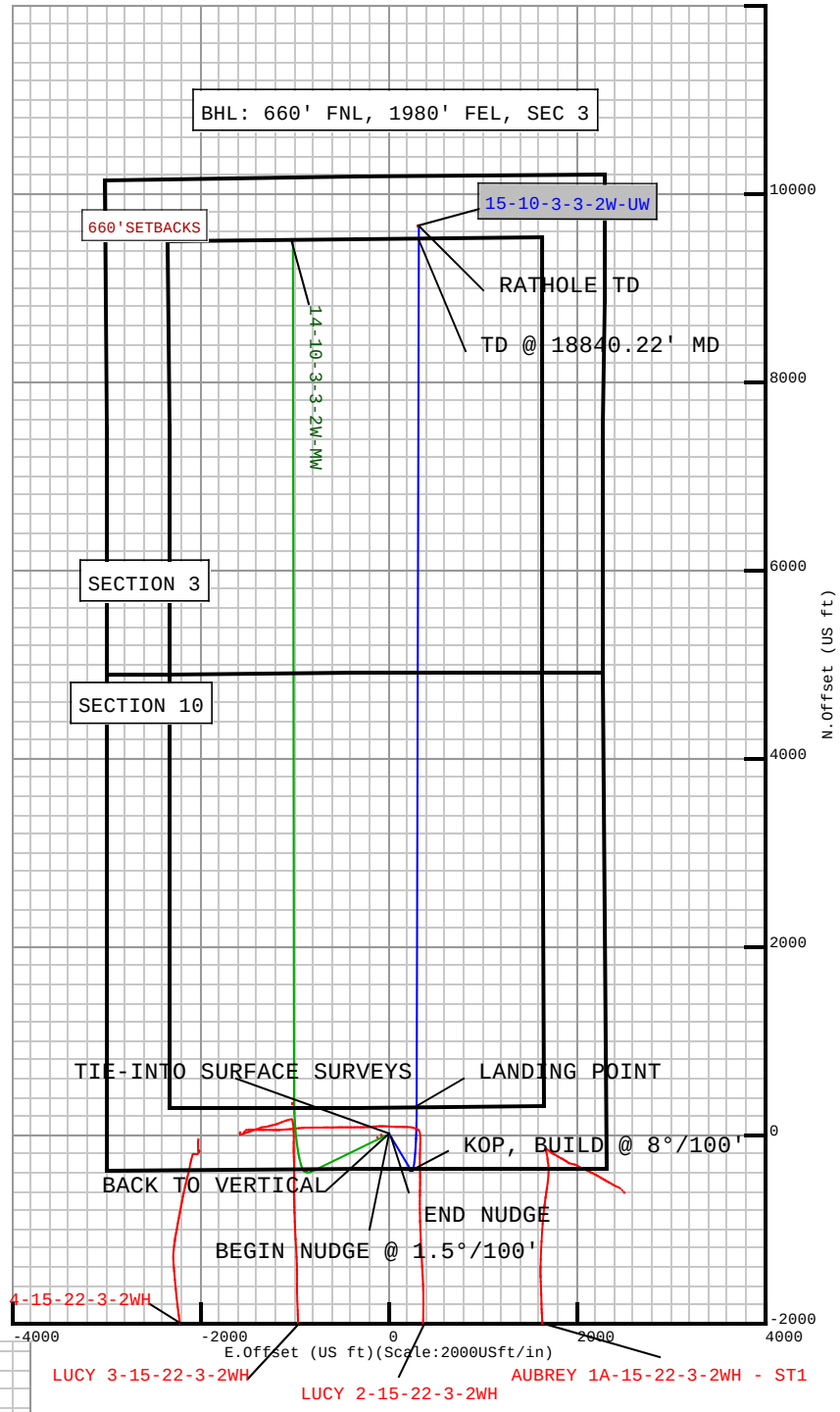
MD (USft)	Inc (°)	Az (°)	TVD (USft)	+N/-S (USft)	+E/-W (USft)	VSec (USft)	DLS (DLSU)	Toolface (°)	Build (DLSU)	Turn (DLSU)
1573.00	0.04	226.85	1572.86	3.93	8.46	4.20	1.25	184.9	-1.03	-421.87
1581.00	0.00	0.00	1580.86	3.93	8.45	4.20	0.50	180.0	-0.50	0.00
4990.00	0.00	0.00	4989.86	3.93	8.45	4.20	0.00	0.0	0.00	0.00
5523.33	8.00	149.00	5521.46	-27.94	27.60	-27.02	1.50	149.0	1.50	0.00
8433.48	8.00	149.00	8403.28	-375.10	236.20	-367.19	0.00	0.0	0.00	0.00
9604.23	86.81	0.14	9201.81	296.10	292.79	305.50	8.00	211.2	6.73	-12.71
18840.22	86.81	0.14	9715.88	9517.76	315.48	9522.98	0.00	125.2	-0.00	0.00
18975.22	86.81	0.14	9723.40	9652.55	315.82	9657.71	0.00	0.0	0.00	0.00



Grid Convergence: 0.90°
Mag Declination: 11.06°
Bearing:
True = Mag + 11.06°
Grid = True - 0.90°

Target Set Information:
Name: 15-10-3-3-2W-UW (525' FNL & 1980 FEL, SEC 3)

Name	TVD (USft)	Lat (°)	Long (°)
PBHL-1	9716.00	40.256681	-110.093408



15-10-3-3-2W-UW

Field Name UTAH_ CENTRAL ZONE_NAD83	**Map Units :** US ft		**Company Name :**
	Vertical Reference Datum (VRD) :		
	Projected Coordinate System : NAD83 / Utah Central (ftUS)		
	Comment :		
Site Name 15-10-3-3-2W-UW	**Units :** US ft	**North Reference** : True	**Convergence Angle :** 0.90
	Position	**Northing :** 7255788.07 US ft	**Latitude :** 40° 13' 49.99"
		Easting : 2032800.87 US ft	**Longitude :** -110° 5' 40.34"
	Elevation above VRD:5345.00 US ft		
	Comment : DUCHESNE COUNTY, UTAH		
Slot Name 15-10-3-3-2W-UW	**Position (Offsets relative to Site Centre)**		
	+N / -S : 0.00 US ft	**Northing :**7255788.07 US ft	**Latitude :** 40°13'49.99"
	+E / -W : 0.00 US ft	**Easting :**2032800.87 US ft	**Longitude :** -110°5'40.34"
	Elevation above VRD : 5345.00 US ft		
	Comment : DUCHESNE COUNTY, UTAH (368' FSL & 2311' FEL, SEC 10)		
Well Name 15-10-3-3-2W-UW	**Type :** Main well	**UWI :**	**Plan :** PLAN 1
	Rig Height *Well TVD Reference* : 28.00 US ft **Relative to VRD:** 5373.00 US ft	**Comment :** PATTERSON 290 (28' RKB)	
	Closure Distance : 9657.71 US ft	**Closure Azimuth :** 1.87398°	
	Vertical Section (Position of Origin Relative to Slot)		
	+N / -S : 0.00 US ft	**+E / -W :** 0.00 US ft	**Az :**1.87°

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5D Plan Report

Magnetic Parameters

Model : BGGM **Field Strength :** 51967.1nT **Dec :** 11.06° **Dip :** 65.85° **Date :** 30/Sep/2014

Target Set

Name : 15-10-3-3-2W-UW (525' FNL & 1980 FEL, SEC 3) **Number of Targets :** 1

Comment :

TargetName:

PBHL-1

Shape:

Cuboid

Position (Relative to Slot centre)

+N / -S : 9517.75US ft **Northing :** 7265309.61 US ft **Latitude :** 40°15'24.05"

+E / -W : 315.65 US ft **Easting :** 2032966.93US ft **Longitude :** -110°5'36.27"

TVD (Well TVD Reference) : 9716.00 US ft

TVDss : -4343.00 US ft

Orientation **Azimuth :** 0.00° **Inclination :** 0.00°

Dimensions **Length :** 1.00 US ft **Breadth :** 1.00 US ft **Height :** 1.00 US ft

Well path created using minimum curvature

Salient Points (Relative to Slot centre, TVD relative to Well TVD Reference)

Comment	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' '')	Longitude (° ' '')	DLS (°/100 US ft)	T.Face (°)	VS (US ft)
	0.00	0.00	0.00	0.00	0.00	0.00	40°13'49.99"	-110°5'40.34"	0.00	0.00	0.00
	176.00	0.00	0.00	176.00	0.00	0.00	40°13'49.99"	-110°5'40.34"	0.00	0.00	0.00
	207.00	0.31	66.32	207.00	0.03	0.08	40°13'49.99"	-110°5'40.34"	1.00	66.32	0.04
	236.00	0.13	93.26	236.00	0.06	0.18	40°13'49.99"	-110°5'40.34"	0.70	163.12	0.07
	263.00	0.16	66.89	263.00	0.08	0.25	40°13'49.99"	-110°5'40.34"	0.27	280.64	0.08
	291.00	0.40	31.73	291.00	0.17	0.33	40°13'49.99"	-110°5'40.34"	1.02	305.95	0.19
	319.00	0.62	48.30	319.00	0.36	0.50	40°13'49.99"	-110°5'40.33"	0.94	42.31	0.37
	348.00	0.31	64.47	348.00	0.50	0.69	40°13'50.00"	-110°5'40.33"	1.15	165.00	0.52
	376.00	0.62	47.29	376.00	0.63	0.87	40°13'50.00"	-110°5'40.33"	1.20	327.03	0.66
	403.00	0.48	57.53	402.99	0.79	1.07	40°13'50.00"	-110°5'40.33"	0.63	149.97	0.83
	431.00	0.81	69.09	430.99	0.93	1.35	40°13'50.00"	-110°5'40.32"	1.26	27.37	0.97
	463.00	0.57	82.40	462.99	1.03	1.72	40°13'50.00"	-110°5'40.32"	0.90	152.80	1.08
	493.00	0.88	67.33	492.99	1.14	2.08	40°13'50.00"	-110°5'40.31"	1.20	320.72	1.20
	523.00	0.57	94.93	522.99	1.21	2.44	40°13'50.00"	-110°5'40.31"	1.53	144.84	1.29
	553.00	1.01	97.08	552.98	1.17	2.85	40°13'50.00"	-110°5'40.30"	1.47	4.93	1.26
	583.00	1.38	117.27	582.98	0.97	3.44	40°13'50.00"	-110°5'40.30"	1.85	59.08	1.08

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Salient Points (Relative to Slot centre, TVD relative to Well TVD Reference)											
Comment	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' '')	Longitude (° ' '')	DLS (°/100 US ft)	T.Face (°)	VS (US ft)
	613.00	1.41	125.91	612.97	0.59	4.06	40°13'50.00"	-110°5'40.29"	0.71	86.22	0.72
	643.00	1.36	124.59	642.96	0.17	4.65	40°13'49.99"	-110°5'40.28"	0.20	211.88	0.32
	673.00	1.19	115.71	672.95	-0.17	5.22	40°13'49.99"	-110°5'40.27"	0.87	224.91	0.00
	703.00	1.10	126.17	702.95	-0.47	5.74	40°13'49.99"	-110°5'40.27"	0.76	118.47	-0.29
	733.00	1.01	106.44	732.94	-0.72	6.22	40°13'49.98"	-110°5'40.26"	1.24	246.35	-0.52
	763.00	0.53	122.57	762.94	-0.87	6.59	40°13'49.98"	-110°5'40.26"	1.74	163.62	-0.65
	793.00	0.57	100.68	792.94	-0.97	6.86	40°13'49.98"	-110°5'40.25"	0.71	269.71	-0.75
	823.00	0.40	114.35	822.94	-1.04	7.10	40°13'49.98"	-110°5'40.25"	0.68	152.47	-0.81
	853.00	0.44	127.05	852.93	-1.15	7.29	40°13'49.98"	-110°5'40.25"	0.34	73.18	-0.92
	883.00	0.76	130.72	882.93	-1.35	7.53	40°13'49.98"	-110°5'40.24"	1.07	8.69	-1.11
	913.00	0.62	127.49	912.93	-1.58	7.81	40°13'49.98"	-110°5'40.24"	0.48	193.92	-1.33
	943.00	0.79	120.90	942.93	-1.79	8.12	40°13'49.97"	-110°5'40.24"	0.63	331.18	-1.52
	973.00	0.79	93.04	972.93	-1.90	8.50	40°13'49.97"	-110°5'40.23"	1.27	256.07	-1.63
	1003.00	0.75	79.46	1002.92	-1.88	8.90	40°13'49.97"	-110°5'40.23"	0.62	250.90	-1.59
	1033.00	0.92	85.79	1032.92	-1.83	9.33	40°13'49.97"	-110°5'40.22"	0.64	31.67	-1.52
	1063.00	0.75	67.77	1062.92	-1.73	9.75	40°13'49.97"	-110°5'40.21"	1.04	228.29	-1.41
	1093.00	0.93	74.37	1092.91	-1.59	10.17	40°13'49.98"	-110°5'40.21"	0.68	31.59	-1.26
	1123.00	0.62	85.57	1122.91	-1.52	10.57	40°13'49.98"	-110°5'40.20"	1.15	159.48	-1.17
	1153.00	0.38	54.14	1152.91	-1.45	10.81	40°13'49.98"	-110°5'40.20"	1.19	213.82	-1.09
	1183.00	0.57	12.93	1182.91	-1.24	10.92	40°13'49.98"	-110°5'40.20"	1.26	277.41	-0.88
	1213.00	0.66	7.70	1212.91	-0.92	10.98	40°13'49.98"	-110°5'40.20"	0.35	325.41	-0.57
	1243.00	0.79	349.46	1242.90	-0.55	10.96	40°13'49.99"	-110°5'40.20"	0.88	290.06	-0.19
	1273.00	0.65	336.65	1272.90	-0.19	10.86	40°13'49.99"	-110°5'40.20"	0.71	222.70	0.16
	1303.00	0.79	338.30	1302.90	0.16	10.72	40°13'49.99"	-110°5'40.20"	0.47	9.25	0.51
	1333.00	1.14	327.09	1332.90	0.60	10.48	40°13'50.00"	-110°5'40.21"	1.32	325.98	0.94
	1363.00	1.32	338.34	1362.89	1.17	10.19	40°13'50.00"	-110°5'40.21"	1.00	59.01	1.50
	1393.00	1.45	329.07	1392.88	1.82	9.86	40°13'50.01"	-110°5'40.21"	0.86	295.43	2.14
	1423.00	1.05	325.46	1422.87	2.37	9.51	40°13'50.01"	-110°5'40.22"	1.36	189.34	2.68
	1453.00	1.23	323.22	1452.87	2.86	9.17	40°13'50.02"	-110°5'40.22"	0.62	344.97	3.15
	1483.00	0.92	325.16	1482.86	3.31	8.83	40°13'50.02"	-110°5'40.23"	1.04	174.27	3.60
	1513.00	0.62	319.27	1512.86	3.63	8.59	40°13'50.03"	-110°5'40.23"	1.03	191.85	3.91
	1543.00	0.35	353.41	1542.86	3.85	8.47	40°13'50.03"	-110°5'40.23"	1.28	149.26	4.12
TIE-INTO SURFACE SURVEYS	1573.00	0.04	226.85	1572.86	3.93	8.46	40°13'50.03"	-110°5'40.23"	1.25	184.91	4.20
BACK TO VERTICAL	1581.00	0.00	0.00	1580.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.50	180.00	4.20
BEGIN NUDGE @ 1.5°/100'	4990.00	0.00	0.00	4989.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20
END NUDGE	5523.33	8.00	149.00	5521.46	-27.94	27.60	40°13'49.71"	-110°5'39.98"	1.50	149.00	-27.02
KOP, BUILD @ 8°/100'	8433.48	8.00	149.00	8403.28	-375.10	236.20	40°13'46.28"	-110°5'37.29"	0.00	0.00	-367.19
LANDING POINT	9604.23	86.81	0.14	9201.81	296.10	292.79	40°13'52.92"	-110°5'36.57"	8.00	211.16	305.50

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5D Plan Report

Salient Points (Relative to Slot centre, TVD relative to Well TVD Reference)

Comment	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' '')	Longitude (° ' '')	DLS (°/100 US ft)	T.Face (°)	VS (US ft)
TD @ 18840.22' MD	18840.22	86.81	0.14	9715.88	9517.76	315.48	40°15'24.05"	-110°5'36.27"	0.00	125.15	9522.98
RATHOLE TD	18975.22	86.81	0.14	9723.40	9652.55	315.82	40°15'25.38"	-110°5'36.27"	0.00	0.00	9657.71

Interpolated Points (Relative to Slot centre, TVD relative to Well TVD Reference)

Comment	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' '')	Longitude (° ' '')	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	T.Rate (°/100 US ft)
Uinta Formation :	0.00	0.00	0.00	0.00	0.00	0.00	40°13'49.99"	-110°5'40.34"	0.00	0.00	0.00	0.00
	176.00	0.00	0.00	176.00	0.00	0.00	40°13'49.99"	-110°5'40.34"	0.00	0.00	0.00	0.00
	207.00	0.31	66.32	207.00	0.03	0.08	40°13'49.99"	-110°5'40.34"	1.00	66.32	0.04	0.00
	236.00	0.13	93.26	236.00	0.06	0.18	40°13'49.99"	-110°5'40.34"	0.70	163.12	0.07	92.90
	263.00	0.16	66.89	263.00	0.08	0.25	40°13'49.99"	-110°5'40.34"	0.27	280.64	0.08	-97.67
	291.00	0.40	31.73	291.00	0.17	0.33	40°13'49.99"	-110°5'40.34"	1.02	305.95	0.19	-125.57
	319.00	0.62	48.30	319.00	0.36	0.50	40°13'49.99"	-110°5'40.33"	0.94	42.31	0.37	59.18
	348.00	0.31	64.47	348.00	0.50	0.69	40°13'50.00"	-110°5'40.33"	1.15	165.00	0.52	55.76
	376.00	0.62	47.29	376.00	0.63	0.87	40°13'50.00"	-110°5'40.33"	1.20	327.03	0.66	-61.36
	403.00	0.48	57.53	402.99	0.79	1.07	40°13'50.00"	-110°5'40.33"	0.63	149.97	0.83	37.93
	431.00	0.81	69.09	430.99	0.93	1.35	40°13'50.00"	-110°5'40.32"	1.26	27.37	0.97	41.29
	463.00	0.57	82.40	462.99	1.03	1.72	40°13'50.00"	-110°5'40.32"	0.90	152.80	1.08	41.59
	493.00	0.88	67.33	492.99	1.14	2.08	40°13'50.00"	-110°5'40.31"	1.20	320.72	1.20	-50.23
	523.00	0.57	94.93	522.99	1.21	2.44	40°13'50.00"	-110°5'40.31"	1.53	144.84	1.29	92.00
	553.00	1.01	97.08	552.98	1.17	2.85	40°13'50.00"	-110°5'40.30"	1.47	4.93	1.26	7.17
	583.00	1.38	117.27	582.98	0.97	3.44	40°13'50.00"	-110°5'40.30"	1.85	59.08	1.08	67.30
	613.00	1.41	125.91	612.97	0.59	4.06	40°13'50.00"	-110°5'40.29"	0.71	86.22	0.72	28.80
	643.00	1.36	124.59	642.96	0.17	4.65	40°13'49.99"	-110°5'40.28"	0.20	211.88	0.32	-4.40
	673.00	1.19	115.71	672.95	-0.17	5.22	40°13'49.99"	-110°5'40.27"	0.87	224.91	0.00	-29.60
	703.00	1.10	126.17	702.95	-0.47	5.74	40°13'49.99"	-110°5'40.27"	0.76	118.47	-0.29	34.87
	733.00	1.01	106.44	732.94	-0.72	6.22	40°13'49.98"	-110°5'40.26"	1.24	246.35	-0.52	-65.77
	763.00	0.53	122.57	762.94	-0.87	6.59	40°13'49.98"	-110°5'40.26"	1.74	163.62	-0.65	53.77
	793.00	0.57	100.68	792.94	-0.97	6.86	40°13'49.98"	-110°5'40.25"	0.71	269.71	-0.75	-72.97
	823.00	0.40	114.35	822.94	-1.04	7.10	40°13'49.98"	-110°5'40.25"	0.68	152.47	-0.81	45.57
	853.00	0.44	127.05	852.93	-1.15	7.29	40°13'49.98"	-110°5'40.25"	0.34	73.18	-0.92	42.33
	883.00	0.76	130.72	882.93	-1.35	7.53	40°13'49.98"	-110°5'40.24"	1.07	8.69	-1.11	12.23
	913.00	0.62	127.49	912.93	-1.58	7.81	40°13'49.98"	-110°5'40.24"	0.48	193.92	-1.33	-10.77
	943.00	0.79	120.90	942.93	-1.79	8.12	40°13'49.97"	-110°5'40.24"	0.63	331.18	-1.52	-21.97
	973.00	0.79	93.04	972.93	-1.90	8.50	40°13'49.97"	-110°5'40.23"	1.27	256.07	-1.63	-92.87
	1003.00	0.75	79.46	1002.92	-1.88	8.90	40°13'49.97"	-110°5'40.23"	0.62	250.90	-1.59	-45.27
	1033.00	0.92	85.79	1032.92	-1.83	9.33	40°13'49.97"	-110°5'40.22"	0.64	31.67	-1.52	21.10
	1063.00	0.75	67.77	1062.92	-1.73	9.75	40°13'49.97"	-110°5'40.21"	1.04	228.29	-1.41	-60.07
	1093.00	0.93	74.37	1092.91	-1.59	10.17	40°13'49.98"	-110°5'40.21"	0.68	31.59	-1.26	22.00
	1123.00	0.62	85.57	1122.91	-1.52	10.57	40°13'49.98"	-110°5'40.20"	1.15	159.48	-1.17	37.33

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Interpolated Points (Relative to Slot centre, TVD relative to Well TVD Reference)												
Comment	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' ")	Longitude (° ' ")	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	T.Rate (°/100 US ft)
	1153.00	0.38	54.14	1152.91	-1.45	10.81	40°13'49.98"	-110°5'40.20"	1.19	213.82	-1.09	-104.77
	1183.00	0.57	12.93	1182.91	-1.24	10.92	40°13'49.98"	-110°5'40.20"	1.26	277.41	-0.88	-137.37
	1213.00	0.66	7.70	1212.91	-0.92	10.98	40°13'49.98"	-110°5'40.20"	0.35	325.41	-0.57	-17.43
	1243.00	0.79	349.46	1242.90	-0.55	10.96	40°13'49.99"	-110°5'40.20"	0.88	290.06	-0.19	-60.80
	1273.00	0.65	336.65	1272.90	-0.19	10.86	40°13'49.99"	-110°5'40.20"	0.71	222.70	0.16	-42.70
	1303.00	0.79	338.30	1302.90	0.16	10.72	40°13'49.99"	-110°5'40.20"	0.47	9.25	0.51	5.50
	1333.00	1.14	327.09	1332.90	0.60	10.48	40°13'50.00"	-110°5'40.21"	1.32	325.98	0.94	-37.37
	1363.00	1.32	338.34	1362.89	1.17	10.19	40°13'50.00"	-110°5'40.21"	1.00	59.01	1.50	37.50
	1393.00	1.45	329.07	1392.88	1.82	9.86	40°13'50.01"	-110°5'40.21"	0.86	295.43	2.14	-30.90
	1423.00	1.05	325.46	1422.87	2.37	9.51	40°13'50.01"	-110°5'40.22"	1.36	189.34	2.68	-12.03
	1453.00	1.23	323.22	1452.87	2.86	9.17	40°13'50.02"	-110°5'40.22"	0.62	344.97	3.15	-7.47
	1483.00	0.92	325.16	1482.86	3.31	8.83	40°13'50.02"	-110°5'40.23"	1.04	174.27	3.60	6.47
	1513.00	0.62	319.27	1512.86	3.63	8.59	40°13'50.03"	-110°5'40.23"	1.03	191.85	3.91	-19.63
	1543.00	0.35	353.41	1542.86	3.85	8.47	40°13'50.03"	-110°5'40.23"	1.28	149.26	4.12	113.80
TIE-INTO SURFACE SURVEYS	1573.00	0.04	226.85	1572.86	3.93	8.46	40°13'50.03"	-110°5'40.23"	1.25	184.91	4.20	-421.87
BACK TO VERTICAL	1581.00	0.00	0.00	1580.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.50	180.00	4.20	0.00
	1600.00	0.00	0.00	1599.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00
	1700.00	0.00	0.00	1699.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00
	1800.00	0.00	0.00	1799.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00
	1900.00	0.00	0.00	1899.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00
	2000.00	0.00	0.00	1999.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00
	2100.00	0.00	0.00	2099.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00
Usable Water :	2105.14	0.00	0.00	2105.00	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00
	2200.00	0.00	0.00	2199.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00
	2300.00	0.00	0.00	2299.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00
	2400.00	0.00	0.00	2399.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00
	2500.00	0.00	0.00	2499.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00
	2600.00	0.00	0.00	2599.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00
	2700.00	0.00	0.00	2699.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00
	2800.00	0.00	0.00	2799.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00
	2900.00	0.00	0.00	2899.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00
	3000.00	0.00	0.00	2999.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00
	3100.00	0.00	0.00	3099.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00
	3200.00	0.00	0.00	3199.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00
	3300.00	0.00	0.00	3299.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00
	3400.00	0.00	0.00	3399.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00
	3500.00	0.00	0.00	3499.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00
	3600.00	0.00	0.00	3599.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00
	3700.00	0.00	0.00	3699.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00

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Comment	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' ")	Longitude (° ' ")	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	T.Rate (°/100 US ft)
Green River Formation :	3739.14	0.00	0.00	3739.00	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00
	3800.00	0.00	0.00	3799.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00
	3900.00	0.00	0.00	3899.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00
	4000.00	0.00	0.00	3999.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00
	4100.00	0.00	0.00	4099.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00
	4200.00	0.00	0.00	4199.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00
	4300.00	0.00	0.00	4299.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00
	4400.00	0.00	0.00	4399.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00
	4500.00	0.00	0.00	4499.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00
	4600.00	0.00	0.00	4599.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00
	4700.00	0.00	0.00	4699.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00
	4800.00	0.00	0.00	4799.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00
	4900.00	0.00	0.00	4899.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00
BEGIN NUDGE @ 1.5°/100'	4990.00	0.00	0.00	4989.86	3.93	8.45	40°13'50.03"	-110°5'40.23"	0.00	0.00	4.20	0.00
	5000.00	0.15	149.00	4999.86	3.92	8.46	40°13'50.03"	-110°5'40.23"	1.50	149.00	4.19	0.00
	5100.00	1.65	149.00	5099.84	2.57	9.27	40°13'50.02"	-110°5'40.22"	1.50	0.00	2.87	0.00
	5200.00	3.15	149.00	5199.75	-1.02	11.43	40°13'49.98"	-110°5'40.19"	1.50	0.00	-0.65	0.00
	5300.00	4.65	149.00	5299.52	-6.85	14.93	40°13'49.92"	-110°5'40.15"	1.50	0.00	-6.36	-0.00
	5400.00	6.15	149.00	5399.07	-14.92	19.78	40°13'49.84"	-110°5'40.09"	1.50	0.00	-14.26	0.00
	5500.00	7.65	149.00	5498.34	-25.21	25.96	40°13'49.74"	-110°5'40.01"	1.50	0.00	-24.35	0.00
END NUDGE	5523.33	8.00	149.00	5521.46	-27.94	27.60	40°13'49.71"	-110°5'39.98"	1.50	0.00	-27.02	0.00
	5600.00	8.00	149.00	5597.38	-37.08	33.10	40°13'49.62"	-110°5'39.91"	0.00	0.00	-35.98	0.00
	5700.00	8.00	149.00	5696.41	-49.01	40.26	40°13'49.51"	-110°5'39.82"	0.00	0.00	-47.67	0.00
Mahogany Bench :	5727.34	8.00	149.00	5723.48	-52.27	42.22	40°13'49.47"	-110°5'39.80"	0.00	0.00	-50.87	0.00
	5800.00	8.00	149.00	5795.43	-60.94	47.43	40°13'49.39"	-110°5'39.73"	0.00	0.00	-59.36	0.00
	5900.00	8.00	149.00	5894.46	-72.87	54.60	40°13'49.27"	-110°5'39.64"	0.00	0.00	-71.05	0.00
	6000.00	8.00	149.00	5993.49	-84.80	61.77	40°13'49.15"	-110°5'39.54"	0.00	0.00	-82.74	0.00
	6100.00	8.00	149.00	6092.51	-96.73	68.94	40°13'49.03"	-110°5'39.45"	0.00	0.00	-94.43	0.00
	6200.00	8.00	149.00	6191.54	-108.66	76.10	40°13'48.92"	-110°5'39.36"	0.00	0.00	-106.12	0.00
	6300.00	8.00	149.00	6290.57	-120.59	83.27	40°13'48.80"	-110°5'39.27"	0.00	0.00	-117.81	0.00
	6400.00	8.00	149.00	6389.59	-132.52	90.44	40°13'48.68"	-110°5'39.17"	0.00	0.00	-129.50	0.00
	6500.00	8.00	149.00	6488.62	-144.45	97.61	40°13'48.56"	-110°5'39.08"	0.00	0.00	-141.19	0.00
	6600.00	8.00	149.00	6587.65	-156.38	104.78	40°13'48.45"	-110°5'38.99"	0.00	0.00	-152.87	0.00
	6700.00	8.00	149.00	6686.68	-168.31	111.94	40°13'48.33"	-110°5'38.90"	0.00	0.00	-164.56	0.00
	6800.00	8.00	149.00	6785.70	-180.24	119.11	40°13'48.21"	-110°5'38.80"	0.00	0.00	-176.25	0.00
	6900.00	8.00	149.00	6884.73	-192.17	126.28	40°13'48.09"	-110°5'38.71"	0.00	0.00	-187.94	0.00
	7000.00	8.00	149.00	6983.76	-204.09	133.45	40°13'47.97"	-110°5'38.62"	0.00	0.00	-199.63	0.00
	7100.00	8.00	149.00	7082.78	-216.02	140.61	40°13'47.86"	-110°5'38.53"	0.00	0.00	-211.32	0.00
	7200.00	8.00	149.00	7181.81	-227.95	147.78	40°13'47.74"	-110°5'38.43"	0.00	0.00	-223.01	0.00

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	7300.00	8.00	149.00	7280.84	-239.88	154.95	40°13'47.62"	-110°5'38.34"	0.00	0.00	-234.70	0.00
	7400.00	8.00	149.00	7379.86	-251.81	162.12	40°13'47.50"	-110°5'38.25"	0.00	0.00	-246.39	0.00
	7500.00	8.00	149.00	7478.89	-263.74	169.29	40°13'47.38"	-110°5'38.16"	0.00	0.00	-258.08	0.00
	7600.00	8.00	149.00	7577.92	-275.67	176.45	40°13'47.27"	-110°5'38.07"	0.00	0.00	-269.77	0.00
	7700.00	8.00	149.00	7676.94	-287.60	183.62	40°13'47.15"	-110°5'37.97"	0.00	0.00	-281.46	0.00
Douglas Creek Member :	7729.50	8.00	149.00	7706.15	-291.12	185.74	40°13'47.11"	-110°5'37.95"	0.00	0.00	-284.90	0.00
	7800.00	8.00	149.00	7775.97	-299.53	190.79	40°13'47.03"	-110°5'37.88"	0.00	0.00	-293.14	0.00
	7900.00	8.00	149.00	7875.00	-311.46	197.96	40°13'46.91"	-110°5'37.79"	0.00	0.00	-304.83	0.00
	8000.00	8.00	149.00	7974.02	-323.39	205.13	40°13'46.79"	-110°5'37.70"	0.00	0.00	-316.52	0.00
	8100.00	8.00	149.00	8073.05	-335.32	212.29	40°13'46.68"	-110°5'37.60"	0.00	0.00	-328.21	0.00
	8200.00	8.00	149.00	8172.08	-347.25	219.46	40°13'46.56"	-110°5'37.51"	0.00	0.00	-339.90	0.00
	8300.00	8.00	149.00	8271.10	-359.18	226.63	40°13'46.44"	-110°5'37.42"	0.00	0.00	-351.59	0.00
	8400.00	8.00	149.00	8370.13	-371.11	233.80	40°13'46.32"	-110°5'37.33"	0.00	0.00	-363.28	0.00
Lower Black Shale :	8433.19	8.00	149.00	8403.00	-375.07	236.18	40°13'46.28"	-110°5'37.30"	0.00	0.00	-367.16	0.00
KOP, BUILD @ 8°/100'	8433.48	8.00	149.00	8403.28	-375.10	236.20	40°13'46.28"	-110°5'37.29"	0.00	0.00	-367.19	0.00
	8500.00	4.41	110.34	8469.43	-379.96	240.98	40°13'46.24"	-110°5'37.23"	8.00	211.16	-371.89	-58.12
Castle Peak Limestone :	8556.10	5.07	54.30	8525.37	-379.26	245.02	40°13'46.24"	-110°5'37.18"	8.00	249.63	-371.06	-99.88
	8600.00	7.67	32.35	8569.00	-375.65	248.16	40°13'46.28"	-110°5'37.14"	8.00	305.50	-367.36	-50.01
	8700.00	15.03	15.51	8667.00	-357.50	255.21	40°13'46.46"	-110°5'37.05"	8.00	327.33	-348.98	-16.84
CP LIMES :	8708.11	15.65	14.84	8674.82	-355.43	255.77	40°13'46.48"	-110°5'37.04"	8.00	343.88	-346.89	-8.23
	8800.00	22.82	9.79	8761.53	-325.84	261.98	40°13'46.77"	-110°5'36.96"	8.00	344.52	-317.12	-5.50
Uteland Butte :	8867.10	28.11	7.68	8822.09	-297.33	266.31	40°13'47.05"	-110°5'36.91"	8.00	349.30	-288.48	-3.15
	8900.00	30.72	6.89	8850.75	-281.30	268.35	40°13'47.21"	-110°5'36.88"	8.00	351.21	-272.40	-2.39
	9000.00	38.65	5.09	8932.91	-224.75	274.20	40°13'47.77"	-110°5'36.80"	8.00	351.90	-215.68	-1.80
Wasatch :	9038.61	41.72	4.55	8962.40	-199.93	276.29	40°13'48.01"	-110°5'36.78"	8.00	353.38	-190.81	-1.39
	9100.00	46.60	3.82	9006.43	-157.29	279.40	40°13'48.44"	-110°5'36.74"	8.00	353.79	-148.09	-1.19
	9200.00	54.57	2.85	9069.87	-80.22	283.86	40°13'49.20"	-110°5'36.68"	8.00	354.31	-70.91	-0.97
	9300.00	62.54	2.06	9122.00	4.95	287.48	40°13'50.04"	-110°5'36.63"	8.00	354.93	14.33	-0.79
	9400.00	70.52	1.37	9161.80	96.56	290.21	40°13'50.95"	-110°5'36.60"	8.00	355.35	105.98	-0.69
	9500.00	78.49	0.75	9188.49	192.83	291.99	40°13'51.90"	-110°5'36.58"	8.00	355.62	202.25	-0.62
	9600.00	86.47	0.16	9201.56	291.89	292.77	40°13'52.88"	-110°5'36.57"	8.00	355.79	301.28	-0.59
LANDING POINT	9604.23	86.81	0.14	9201.81	296.10	292.79	40°13'52.92"	-110°5'36.57"	8.00	355.86	305.50	-0.58
Wasatch 11 Target :	9604.30	86.81	0.14	9201.81	296.18	292.79	40°13'52.92"	-110°5'36.57"	0.00	0.00	305.57	0.00
	9700.00	86.81	0.14	9207.14	391.73	293.02	40°13'53.86"	-110°5'36.56"	0.00	0.00	401.08	0.00
	9800.00	86.81	0.14	9212.70	491.57	293.26	40°13'54.85"	-110°5'36.56"	0.00	0.00	500.88	0.00
Wasatch 12 :	9892.16	86.81	0.14	9217.83	583.59	293.49	40°13'55.76"	-110°5'36.56"	0.00	0.00	592.86	0.00
	9900.00	86.81	0.14	9218.27	591.42	293.51	40°13'55.84"	-110°5'36.56"	0.00	0.00	600.68	0.00
	10000.00	86.81	0.14	9223.83	691.26	293.75	40°13'56.82"	-110°5'36.55"	0.00	0.00	700.48	0.00

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	10100.00	86.81	0.14	9229.40	791.11	294.00	40°13'57.81"	-110°5'36.55"	0.00	0.00	800.28	0.00
	10200.00	86.81	0.14	9234.96	890.95	294.24	40°13'58.80"	-110°5'36.55"	0.00	0.00	900.08	0.00
	10300.00	86.81	0.14	9240.53	990.80	294.48	40°13'59.78"	-110°5'36.54"	0.00	0.00	999.88	0.00
	10400.00	86.81	0.14	9246.09	1090.64	294.73	40°14'0.77"	-110°5'36.54"	0.00	0.00	1099.68	0.00
	10500.00	86.81	0.14	9251.66	1190.49	294.97	40°14'1.76"	-110°5'36.54"	0.00	0.00	1199.48	0.00
	10600.00	86.81	0.14	9257.22	1290.33	295.22	40°14'2.74"	-110°5'36.53"	0.00	0.00	1299.28	0.00
	10700.00	86.81	0.14	9262.79	1390.18	295.46	40°14'3.73"	-110°5'36.53"	0.00	0.00	1399.08	0.00
	10800.00	86.81	0.14	9268.35	1490.02	295.71	40°14'4.72"	-110°5'36.53"	0.00	0.00	1498.88	0.00
	10900.00	86.81	0.14	9273.92	1589.87	295.95	40°14'5.70"	-110°5'36.52"	0.00	0.00	1598.68	0.00
	11000.00	86.81	0.14	9279.48	1689.71	296.19	40°14'6.69"	-110°5'36.52"	0.00	0.00	1698.48	0.00
	11100.00	86.81	0.14	9285.05	1789.56	296.44	40°14'7.68"	-110°5'36.52"	0.00	0.00	1798.28	0.00
	11200.00	86.81	0.14	9290.61	1889.40	296.68	40°14'8.66"	-110°5'36.51"	0.00	0.00	1898.08	0.00
	11300.00	86.81	0.14	9296.18	1989.25	296.93	40°14'9.65"	-110°5'36.51"	0.00	0.00	1997.88	0.00
	11400.00	86.81	0.14	9301.74	2089.09	297.17	40°14'10.64"	-110°5'36.51"	0.00	0.00	2097.68	0.00
	11500.00	86.81	0.14	9307.31	2188.94	297.42	40°14'11.62"	-110°5'36.51"	0.00	0.00	2197.48	0.00
	11600.00	86.81	0.14	9312.87	2288.78	297.66	40°14'12.61"	-110°5'36.50"	0.00	0.00	2297.27	0.00
	11700.00	86.81	0.14	9318.44	2388.62	297.91	40°14'13.60"	-110°5'36.50"	0.00	0.00	2397.07	0.00
	11800.00	86.81	0.14	9324.00	2488.47	298.15	40°14'14.58"	-110°5'36.50"	0.00	0.00	2496.87	0.00
	11900.00	86.81	0.14	9329.57	2588.31	298.40	40°14'15.57"	-110°5'36.49"	0.00	0.00	2596.67	0.00
	12000.00	86.81	0.14	9335.13	2688.16	298.64	40°14'16.56"	-110°5'36.49"	0.00	0.00	2696.47	0.00
	12100.00	86.81	0.14	9340.70	2788.00	298.89	40°14'17.54"	-110°5'36.49"	0.00	0.00	2796.27	0.00
	12200.00	86.81	0.14	9346.26	2887.85	299.13	40°14'18.53"	-110°5'36.48"	0.00	0.00	2896.07	0.00
	12300.00	86.81	0.14	9351.83	2987.69	299.38	40°14'19.52"	-110°5'36.48"	0.00	0.00	2995.87	0.00
	12400.00	86.81	0.14	9357.40	3087.54	299.62	40°14'20.50"	-110°5'36.48"	0.00	0.00	3095.67	0.00
	12500.00	86.81	0.14	9362.96	3187.38	299.87	40°14'21.49"	-110°5'36.47"	0.00	0.00	3195.47	0.00
	12600.00	86.81	0.14	9368.53	3287.23	300.11	40°14'22.48"	-110°5'36.47"	0.00	0.00	3295.27	0.00
	12700.00	86.81	0.14	9374.09	3387.07	300.36	40°14'23.46"	-110°5'36.47"	0.00	0.00	3395.07	0.00
	12800.00	86.81	0.14	9379.66	3486.92	300.60	40°14'24.45"	-110°5'36.46"	0.00	0.00	3494.87	0.00
	12900.00	86.81	0.14	9385.22	3586.76	300.85	40°14'25.44"	-110°5'36.46"	0.00	0.00	3594.67	0.00
	13000.00	86.81	0.14	9390.79	3686.61	301.09	40°14'26.42"	-110°5'36.46"	0.00	0.00	3694.47	0.00
	13100.00	86.81	0.14	9396.35	3786.45	301.34	40°14'27.41"	-110°5'36.45"	0.00	0.00	3794.27	0.00
	13200.00	86.81	0.14	9401.92	3886.30	301.58	40°14'28.40"	-110°5'36.45"	0.00	0.00	3894.07	0.00
	13300.00	86.81	0.14	9407.49	3986.14	301.83	40°14'29.38"	-110°5'36.45"	0.00	0.00	3993.87	0.00
	13400.00	86.81	0.14	9413.05	4085.98	302.07	40°14'30.37"	-110°5'36.44"	0.00	0.00	4093.67	0.00
	13500.00	86.81	0.14	9418.62	4185.83	302.32	40°14'31.36"	-110°5'36.44"	0.00	0.00	4193.47	0.00
	13600.00	86.81	0.14	9424.18	4285.67	302.57	40°14'32.34"	-110°5'36.44"	0.00	0.00	4293.27	0.00
	13700.00	86.81	0.14	9429.75	4385.52	302.81	40°14'33.33"	-110°5'36.44"	0.00	0.00	4393.06	0.00
	13800.00	86.81	0.14	9435.32	4485.36	303.06	40°14'34.32"	-110°5'36.43"	0.00	0.00	4492.86	0.00
	13900.00	86.81	0.14	9440.88	4585.21	303.30	40°14'35.30"	-110°5'36.43"	0.00	0.00	4592.66	0.00
	14000.00	86.81	0.14	9446.45	4685.05	303.55	40°14'36.29"	-110°5'36.43"	0.00	0.00	4692.46	0.00
	14100.00	86.81	0.14	9452.01	4784.90	303.79	40°14'37.28"	-110°5'36.42"	0.00	0.00	4792.26	0.00

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Interpolated Points (Relative to Slot centre, TVD relative to Well TVD Reference)												
Comment	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' ")	Longitude (° ' ")	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	T.Rate (°/100 US ft)
	14200.00	86.81	0.14	9457.58	4884.74	304.04	40°14'38.27"	-110°5'36.42"	0.00	0.00	4892.06	0.00
	14300.00	86.81	0.14	9463.15	4984.59	304.28	40°14'39.25"	-110°5'36.42"	0.00	0.00	4991.86	0.00
	14400.00	86.81	0.14	9468.71	5084.43	304.53	40°14'40.24"	-110°5'36.41"	0.00	0.00	5091.66	0.00
	14500.00	86.81	0.14	9474.28	5184.28	304.78	40°14'41.23"	-110°5'36.41"	0.00	0.00	5191.46	0.00
	14600.00	86.81	0.14	9479.84	5284.12	305.02	40°14'42.21"	-110°5'36.41"	0.00	0.00	5291.26	0.00
	14700.00	86.81	0.14	9485.41	5383.97	305.27	40°14'43.20"	-110°5'36.40"	0.00	0.00	5391.06	0.00
	14800.00	86.81	0.14	9490.98	5483.81	305.51	40°14'44.19"	-110°5'36.40"	0.00	0.00	5490.86	0.00
	14900.00	86.81	0.14	9496.54	5583.66	305.76	40°14'45.17"	-110°5'36.40"	0.00	0.00	5590.66	0.00
	15000.00	86.81	0.14	9502.11	5683.50	306.01	40°14'46.16"	-110°5'36.39"	0.00	0.00	5690.46	0.00
	15100.00	86.81	0.14	9507.67	5783.34	306.25	40°14'47.15"	-110°5'36.39"	0.00	0.00	5790.26	0.00
	15200.00	86.81	0.14	9513.24	5883.19	306.50	40°14'48.13"	-110°5'36.39"	0.00	0.00	5890.06	0.00
	15300.00	86.81	0.14	9518.81	5983.03	306.74	40°14'49.12"	-110°5'36.38"	0.00	0.00	5989.86	0.00
	15400.00	86.81	0.14	9524.37	6082.88	306.99	40°14'50.11"	-110°5'36.38"	0.00	0.00	6089.66	0.00
	15500.00	86.81	0.14	9529.94	6182.72	307.24	40°14'51.09"	-110°5'36.38"	0.00	0.00	6189.46	0.00
Wasatch 15 Base :	15516.74	86.81	0.14	9530.87	6199.43	307.28	40°14'51.26"	-110°5'36.38"	0.00	0.00	6206.16	0.00
	15600.00	86.81	0.14	9535.51	6282.57	307.48	40°14'52.08"	-110°5'36.37"	0.00	0.00	6289.26	0.00
	15700.00	86.81	0.14	9541.07	6382.41	307.73	40°14'53.07"	-110°5'36.37"	0.00	0.00	6389.06	0.00
	15800.00	86.81	0.14	9546.64	6482.26	307.98	40°14'54.05"	-110°5'36.37"	0.00	0.00	6488.85	0.00
	15900.00	86.81	0.14	9552.20	6582.10	308.22	40°14'55.04"	-110°5'36.37"	0.00	0.00	6588.65	0.00
	16000.00	86.81	0.14	9557.77	6681.95	308.47	40°14'56.03"	-110°5'36.36"	0.00	0.00	6688.45	0.00
	16100.00	86.81	0.14	9563.34	6781.79	308.72	40°14'57.01"	-110°5'36.36"	0.00	0.00	6788.25	0.00
	16200.00	86.81	0.14	9568.90	6881.64	308.96	40°14'58.00"	-110°5'36.36"	0.00	0.00	6888.05	0.00
	16300.00	86.81	0.14	9574.47	6981.48	309.21	40°14'58.99"	-110°5'36.35"	0.00	0.00	6987.85	0.00
	16400.00	86.81	0.14	9580.04	7081.32	309.46	40°14'59.97"	-110°5'36.35"	0.00	0.00	7087.65	0.00
	16500.00	86.81	0.14	9585.60	7181.17	309.70	40°15'0.96"	-110°5'36.35"	0.00	0.00	7187.45	0.00
	16600.00	86.81	0.14	9591.17	7281.01	309.95	40°15'1.95"	-110°5'36.34"	0.00	0.00	7287.25	0.00
	16700.00	86.81	0.14	9596.74	7380.86	310.20	40°15'2.93"	-110°5'36.34"	0.00	0.00	7387.05	0.00
	16800.00	86.81	0.14	9602.30	7480.70	310.44	40°15'3.92"	-110°5'36.34"	0.00	0.00	7486.85	0.00
	16900.00	86.81	0.14	9607.87	7580.55	310.69	40°15'4.91"	-110°5'36.33"	0.00	0.00	7586.65	0.00
	17000.00	86.81	0.14	9613.44	7680.39	310.94	40°15'5.89"	-110°5'36.33"	0.00	0.00	7686.45	0.00
	17100.00	86.81	0.14	9619.00	7780.24	311.18	40°15'6.88"	-110°5'36.33"	0.00	0.00	7786.25	0.00
Wasatch 18 :	17108.31	86.81	0.14	9619.47	7788.54	311.20	40°15'6.96"	-110°5'36.33"	0.00	0.00	7794.54	0.00
	17200.00	86.81	0.14	9624.57	7880.08	311.43	40°15'7.87"	-110°5'36.32"	0.00	0.00	7886.05	0.00
	17300.00	86.81	0.14	9630.14	7979.93	311.68	40°15'8.85"	-110°5'36.32"	0.00	0.00	7985.85	0.00
	17400.00	86.81	0.14	9635.70	8079.77	311.92	40°15'9.84"	-110°5'36.32"	0.00	0.00	8085.65	0.00
	17500.00	86.81	0.14	9641.27	8179.62	312.17	40°15'10.83"	-110°5'36.31"	0.00	0.00	8185.45	0.00
	17600.00	86.81	0.14	9646.84	8279.46	312.42	40°15'11.81"	-110°5'36.31"	0.00	0.00	8285.25	0.00
	17700.00	86.81	0.14	9652.41	8379.30	312.66	40°15'12.80"	-110°5'36.31"	0.00	0.00	8385.05	0.00
	17800.00	86.81	0.14	9657.97	8479.15	312.91	40°15'13.79"	-110°5'36.30"	0.00	0.00	8484.84	0.00
	17900.00	86.81	0.14	9663.54	8578.99	313.16	40°15'14.77"	-110°5'36.30"	0.00	0.00	8584.64	0.00

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Interpolated Points (Relative to Slot centre, TVD relative to Well TVD Reference)

Comment	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' ")	Longitude (° ' ")	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	T.Rate (°/100 US ft)
	18000.00	86.81	0.14	9669.11	8678.84	313.41	40°15'15.76"	-110°5'36.30"	0.00	0.00	8684.44	0.00
	18100.00	86.81	0.14	9674.67	8778.68	313.65	40°15'16.75"	-110°5'36.29"	0.00	0.00	8784.24	0.00
	18200.00	86.81	0.14	9680.24	8878.53	313.90	40°15'17.73"	-110°5'36.29"	0.00	0.00	8884.04	0.00
	18300.00	86.81	0.14	9685.81	8978.37	314.15	40°15'18.72"	-110°5'36.29"	0.00	0.00	8983.84	0.00
	18400.00	86.81	0.14	9691.37	9078.22	314.40	40°15'19.71"	-110°5'36.29"	0.00	0.00	9083.64	0.00
	18500.00	86.81	0.14	9696.94	9178.06	314.64	40°15'20.69"	-110°5'36.28"	0.00	0.00	9183.44	0.00
	18600.00	86.81	0.14	9702.51	9277.91	314.89	40°15'21.68"	-110°5'36.28"	0.00	0.00	9283.24	0.00
	18700.00	86.81	0.14	9708.08	9377.75	315.14	40°15'22.67"	-110°5'36.28"	0.00	0.00	9383.04	0.00
	18800.00	86.81	0.14	9713.64	9477.60	315.39	40°15'23.65"	-110°5'36.27"	0.00	0.00	9482.84	0.00
TD @ 18840.22' MD	18840.22	86.81	0.14	9715.88	9517.76	315.48	40°15'24.05"	-110°5'36.27"	0.00	0.00	9522.98	0.00
	18900.00	86.81	0.14	9719.21	9577.44	315.63	40°15'24.64"	-110°5'36.27"	0.00	0.00	9582.64	0.00
RATHOLE TD	18975.22	86.81	0.14	9723.40	9652.55	315.82	40°15'25.38"	-110°5'36.27"	0.00	0.00	9657.71	0.00

Formation Points (Relative to Slot centre, TVD relative to Well TVD Reference)

Name	MD (US ft)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)
Uinta Formation	0.00	0.00	0.00	0.00
Usable Water	2105.14	2105.00	3.93	8.45
Green River Formation	3739.14	3739.00	3.93	8.45
Mahogany Bench	5727.34	5723.48	-52.27	42.22
Douglas Creek Member	7729.50	7706.15	-291.12	185.74
Lower Black Shale	8433.19	8403.00	-375.07	236.18
Castle Peak Limestone	8556.10	8525.37	-379.26	245.02
CP LIMES	8708.11	8674.82	-355.43	255.77
Uteland Butte	8867.10	8822.09	-297.33	266.31
Wasatch	9038.61	8962.40	-199.93	276.29
Wasatch 11 Target	9604.30	9201.81	296.18	292.79
Wasatch 12	9892.16	9217.83	583.59	293.49
Wasatch 15 Base	15516.74	9530.87	6199.43	307.28
Wasatch 18	17108.31	9619.47	7788.54	311.20

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CONFIDENTIAL

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Patterson 290
Submitted By Mike Woolsey & Jared Bouzek Phone Number 307-212-4856
Well Name/Number Ranch 15-10-3-3-2W-MW
Qtr/Qtr SW/SE Section 10 Township 3S Range 2W
Lease Serial Number Patented
API Number 43013522960000

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time _____ _____ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

☐ Surface Casing
☒ Intermediate Casing
☐ Production Casing
☐ Liner
☐ Other

Date/Time 10-12-14 6:00 AM ☒ PM ☐

BOPE

☐ Initial BOPE test at surface casing point
☐ BOPE test at intermediate casing point
☐ 30 day BOPE test
☐ Other

Date/Time _____ _____ AM ☐ PM ☐

Remarks We will Be Running Intermediate Casing on the Ranch 15-10-3-3-2W-UW Between 10-12-14 to 10-13-14

DATE 10/3 - 10/4/2014

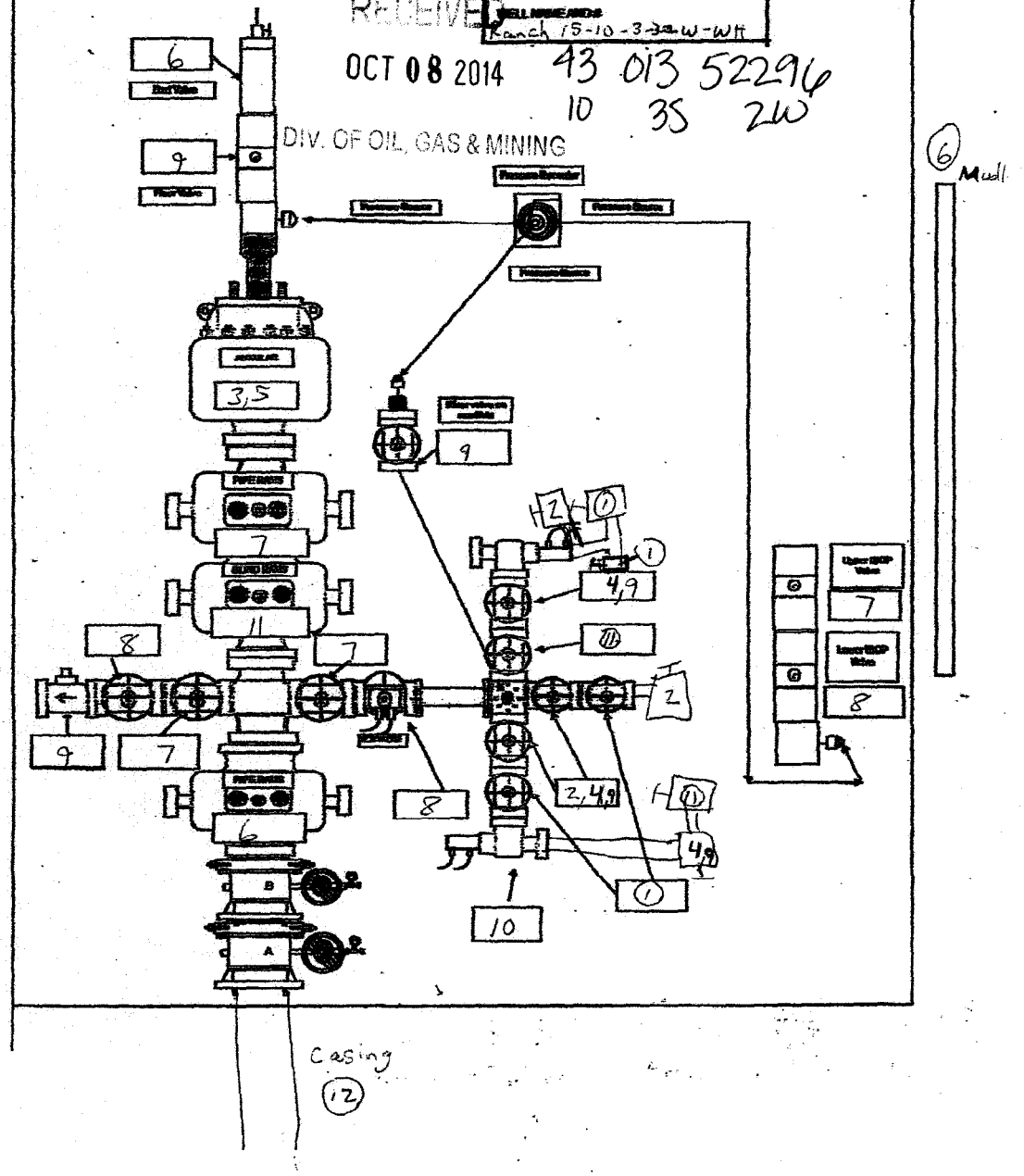
COMPANY Newfield

CONTRACTOR Patterson 290

WELL NAME AND NO. Ranch 15-10-3-3aW-WH

RECEIVED
OCT 08 2014
DIV. OF OIL, GAS & MINING

43 013 52296
10 3S 2W



DATE: 10/3-10/4/2014 **ACCUMULATOR FUNCTION TEST**

WELL: Ranch 15-10-3-3-2W-WH

TO CHECK THE USABLE FLUID STORED IN THE NITROGEN BOTTLES ON THE ACCUMULATOR (OO #2 III.A.2.c.i. or ii or iii)

1. *Make sure all rams and annular are open and if applicable HCR is closed*
2. *Ensure accumulator is pumped up to working pressure! (Shut off all pumps)*
3. *Open HCR valve. (if applicable)*
4. *Close annular.*
5. *Close all pipe rams.*
6. *Open one set of pipe rams to simulate closing the blind rams.*
7. *If you have a 3 Ram stack open the annular to achieve the 50 +/- % safety factor for 5M and greater systems.*
8. *Accumulator pressure should be 200 psi over precharge pressure (Accumulator working pressure (1,500 psi = 750 desired psi) (2,000 and 3,000 psi = 1,000 desired psi)).*

9. **RECORD THE REMAINING PRESSURE** 1,360 **PSI**

If annular is closed, open it at this time and close HCR.

TO CHECK THE CAPACITY OF THE ACCUMULATOR PUMPS (OO #2 III.A.2.f.)

Shut the accumulator bottles or spherical (isolate them from the pumps & manifold) open the bleed off valve to the tank (Manifold psi should go to zero psi) close bleed valve.

1. *Open the HCR valve. (if applicable)*
2. *Close annular.*
3. *With pumps only, time how long it takes to re- gain manifold presssure to 200 psi over desired precharge pressure! (Accumulator working pressure (1,500 psi = 750 psi desired psi) (2,000 and 3,000 psi = 1,000 desired psi)).*

4. **RECORD ELAPSED TIME** 1 min 1 sec **PSI (2 minutes or less)**

TO CHECK THE PRECHARGE ON THE BOTTLES OR SPHERICAL (OO #2 III.A.2.d.)

1. *Open bottles back up to the manifold (pressure should be above the desired precharge pressure (1,500 psi = 750 psi desired psi) (2,000 and 3,000 psi = 1,000 desired psi)) may need to use pumps to pressure back up.*
2. *With power to pumps shut off open bleed line to tank.*
3. *Watch and record where the pressure drops (Accumulator psi).*

4. **RECORD THE PRESSURE DROP** 950 **PSI**

If pressure drops below MINIMUM precharge (Accumulator working pressure (1,500 psi = 700 psi minimum) (2,000 and 3,000 psi = 900 psi minimum)) each bottle shall be independently checked with a guage.

DATE: 10/3 COMPANY: Newfield RIG: Patterson 290 WELL NAME & #: Ranch 15-10-3-2W-WH

Time	Test No.		Result
6:37 AM ☐PM☒	1	Outside Manifold Valves, Downstream Manifold Valves	Pass ☒Fail ☐
7:13 AM ☐PM☒	2	Inside Manifold Valve, Downstream Manifold Valves	Pass ☒Fail ☐
9:21 AM ☐PM☒	3	Annular	Pass ☐Fail ☒
12:51 AM ☒PM☐	4	Inside Manifold Valve, Outside Manifold Valve, Downstream	Pass ☐Fail ☒
2:53 AM ☒PM☐	5	Annular	Pass ☒Fail ☐
4:39 AM ☒PM☐	6	Mudline, Lower Pipe Rams, Dart	Pass ☒Fail ☐
5:12 AM ☒PM☐	7	Upper Pipe Rams, Inside Manual/Kill & Choke Valves, Hydr. IBOP	Pass ☒Fail ☐
5:37 AM ☒PM☐	8	Manual IBOP, Outside Manual Kill, HCR	Pass ☒Fail ☐
6:16 AM ☒PM☐	9	Check Valve, Riser, Inside & Outside & Downstream Manifold Valve, TIW	Pass ☒Fail ☐
6:42 AM ☒PM☐	10	Super Choke	Pass ☒Fail ☐
7:30 AM ☒PM☐	11	Blind Rams, Inside & Downstream Manifold Valve	Pass ☒Fail ☐
8:22 AM ☒PM☐	12	Casing	Pass ☒Fail ☐
AM ☐PM☐	13		Pass ☐Fail ☐
AM ☐PM☐	14		Pass ☐Fail ☐
AM ☐PM☐	Retest		Pass ☐Fail ☐
AM ☐PM☐	Retest		Pass ☐Fail ☐
AM ☐PM☐	Retest		Pass ☐Fail ☐
AM ☐PM☐	Retest		Pass ☐Fail ☐
AM ☐PM☐	Retest		Pass ☐Fail ☐
AM ☐PM☐	Retest		Pass ☐Fail ☐

Acc. Tank Size (inches): (W D L) ÷ 231= gal.

Rock Springs, WY (307) 382-3350
BOP TESTING, CASING TESTING, LEAK OFF TESTING, & INTEGRITY TESTING
NIPPLE UP CREWS, NITROGEN CHARGING SERVICE

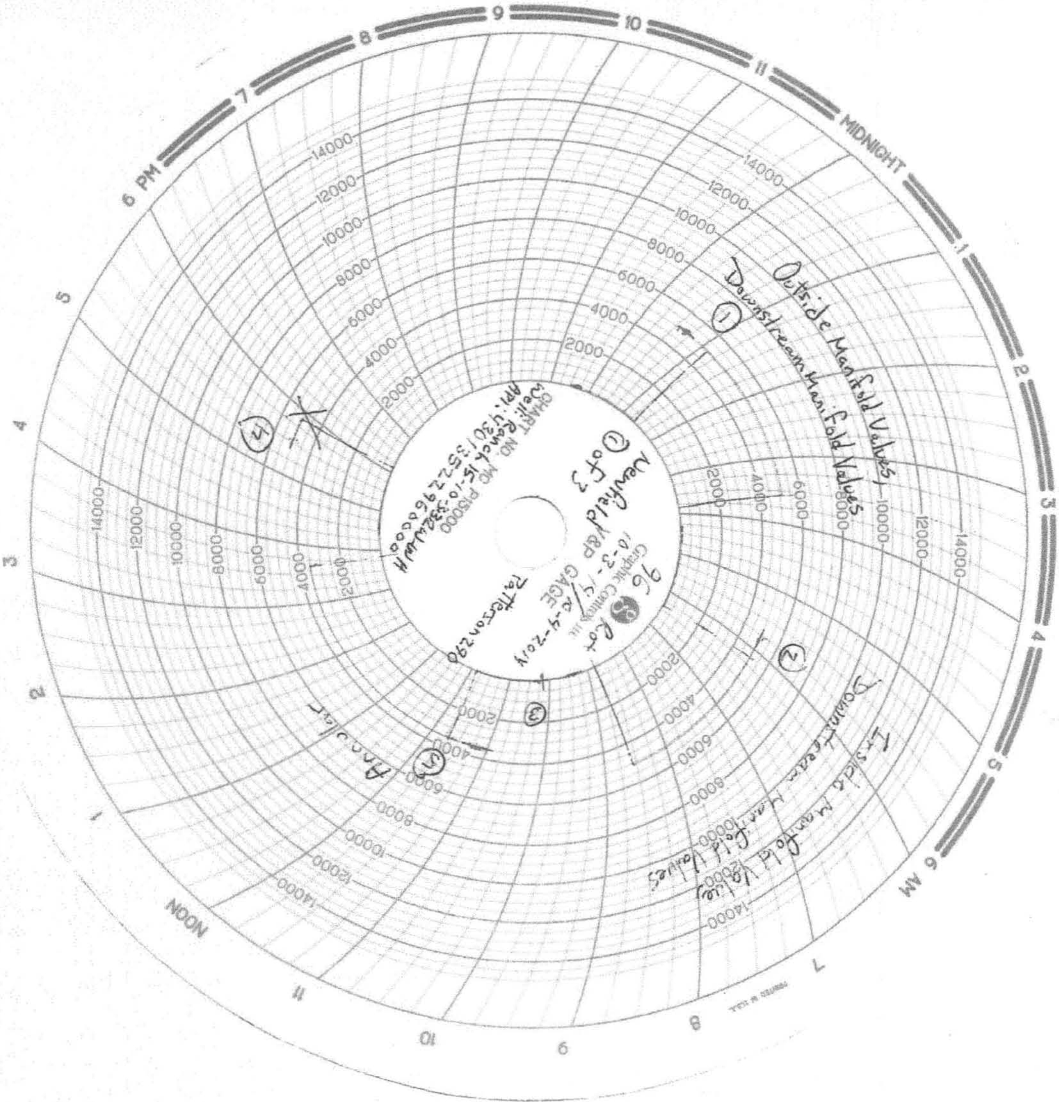
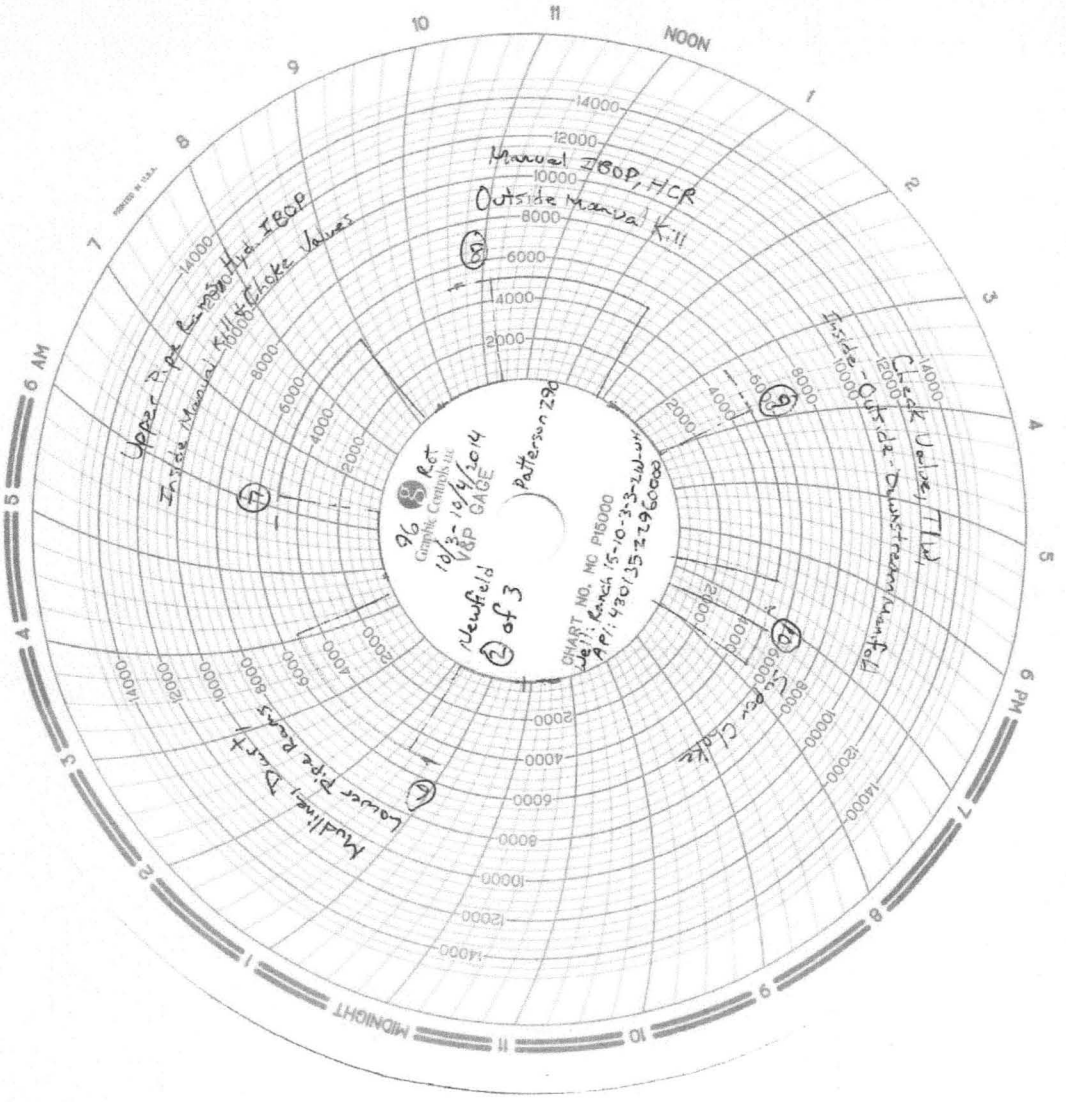
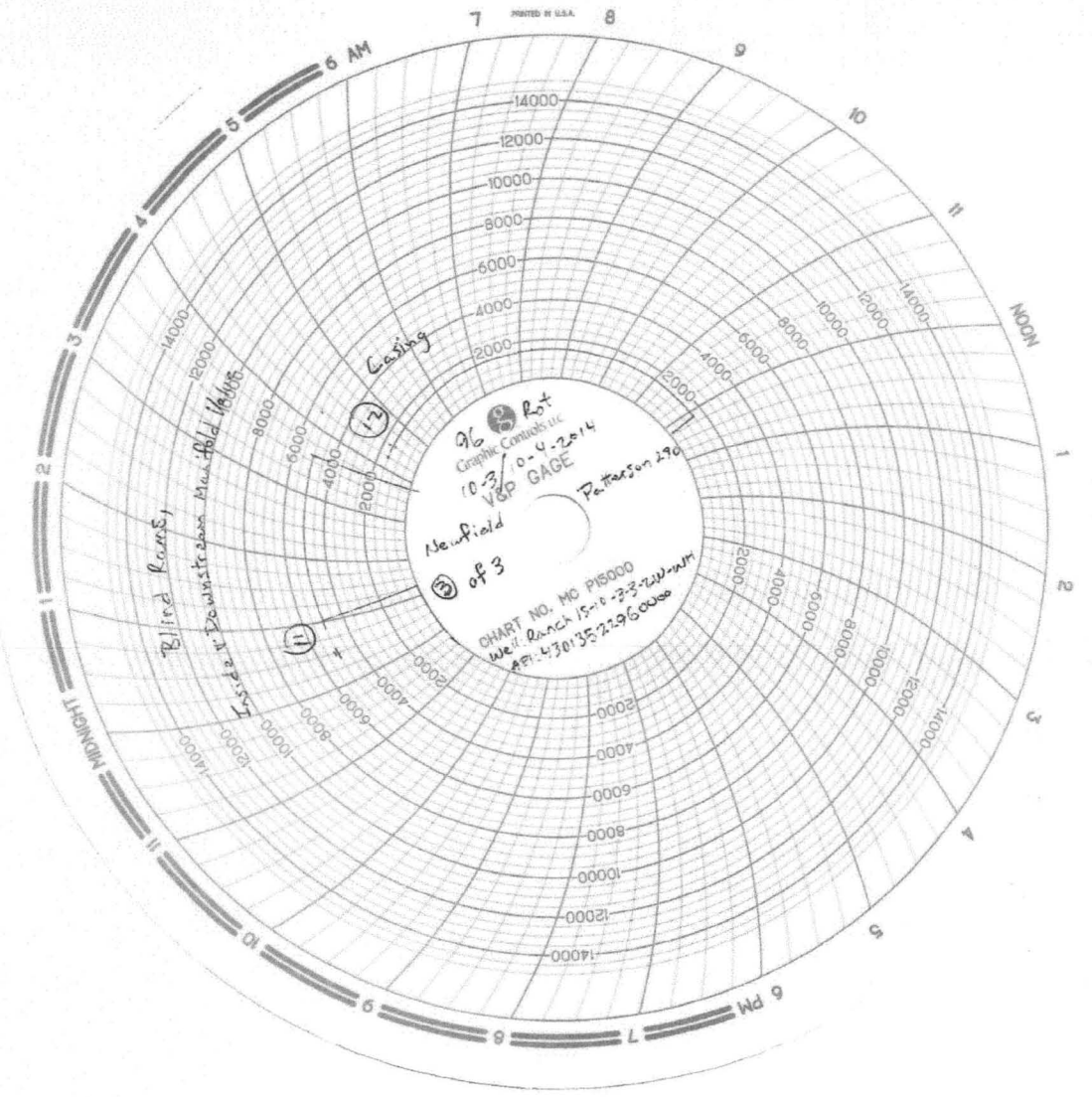


CHART NO. MC P15000
GAGE
Graphic Controls
Newfield
1 of 3
Outside Manifold Valves
Downstream Manifold Valves
MIDNIGHT
6 AM
NOON
6 PM

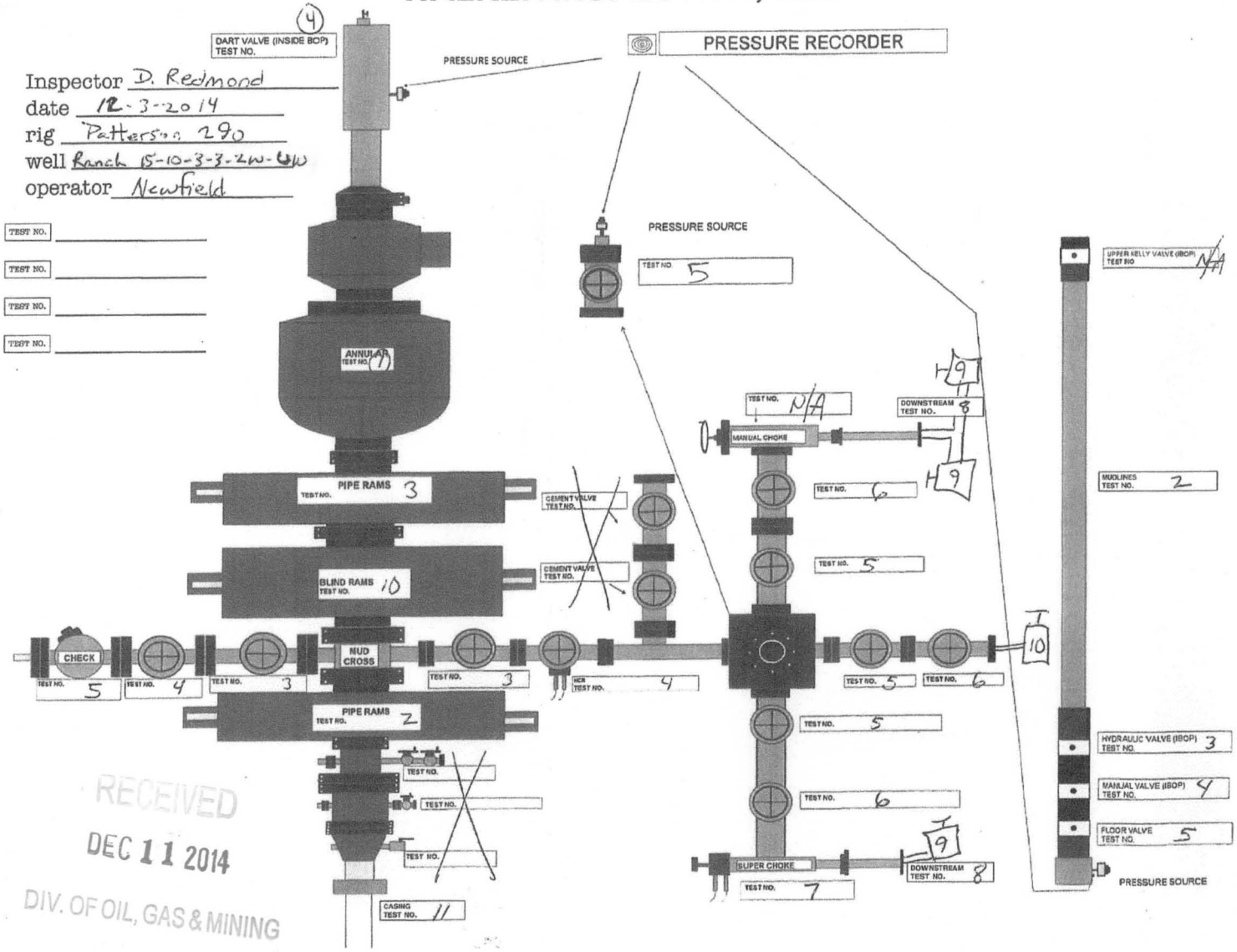

NOON
MIDNIGHT
6 AM
6 PM
Manual IBOP, HCR
Outside Manual Kill
Upper Pipe Ram Hyd. IBOP
Inside Manual Kill & Choke Values
Mud line, Dart
Lower Pipe Rams
Choke Line
Inside - Outside - Diverter Manifold
Choke Valves, TIW
Patterson 298
96
Graphic Controls LLC
10/3 - 10/4/2014
V&P GAGE
Newfield
2 of 3
CHART NO. MC P15000
API: Lincoln 15-10-3-3-2WDW
API: 430/35-29600


PRINTED IN U.S.A.
6 AM
NOON
6 PM
MIDNIGHT
2000
4000
6000
8000
10000
12000
14000
Casing
Blind Rams
Inside of Downstream Manifold Valves
Graphic Controls LLC
10-3/10-4-2014
V&P GAGE
Patterson 290
Newfield
3 of 3
CHART NO. MC P15000
Well Ranch 15-10-3-3-2W-NM
API: 43013522960000

43 013 52296
10 35 2W

WALKER INSPECTION, LLC

Inspector D. Redmond
date 12-3-2014
rig Patterson 290
well Ranch 15-10-3-2W-UW
operator Newfield



RECEIVED
DEC 11 2014
DIV. OF OIL, GAS & MINING

WALKER INSPECTION, LLC

Accumulator Function Test

Lease #Ranch 15-10-3-3-2WB Operator Hanfield
Rig Name & # Patterson 290 Location 1/4 1/4 T R
Inspector Dustin Redmond Date 12-3-2014

TO CHECK THE USABLE FLUID STORED IN THE NITROGEN BOTTLES ON THE ACCUMULATOR **(O.S.O. #2 section, III.A.2.c.i. or ii or iii)**

1. Make sure all rams and annular are open and if applicable HCR is closed.
2. Ensure accumulator is pumped up to working pressure! (Shut off all pumps)
3. Open HCR Valve. (if applicable)
4. Close annular.
5. Close **all** pipe rams.
6. Open one set of pipe rams to simulate closing the blind ram.
7. If you have a 3 ram stack, open the annular to achieve the 50=% safety factor for 5M and greater systems.
8. Accumulator pressure should be 200 psi above the **desired** pre-charge pressure, (Accumulator working pressure {1500psi = 750 **desired** psi} { 2000 and 3000 psi = 1000 **desired** psi}
9. **Record the remaining pressure** 1,500 **psi.**

If annular is closed, open it a this time and close the HCR.

TO CHECK THE PRECHARGE ON BOTTLES OR SPHERICAL **(O.S.O. #2 section III.A.2.d)**

1. The manifold pre-charge pressure **should** be above the **desired** pre-charge pressure, {1500 psi = 750 **desired** psi} {2000 and 3000 psi = 1000 **desired** psi} may need to use pumps to pressure back up.
2. With power to pump shut off open bleed line to the tank.
3. Watch and record where the pressure drops, (accumulator psi).

Record the pressure drop 950 **psi.**

If the pressure drops below the MINIMUM pre-charge, (Accumulator working pressure {1500 psi = 700 min.} {2000 and 3000psi = 1900psi min.}, each bottle shall be independently checked with a gauge and recharged with nitrogen to the desired pre-charge pressure. (Accumulator working pressure {1500psi = 750 **desired** psi} { 2000 and 3000 psi = 1000 **desired** psi}.

TO CHECK THE CAPACITY OF THE ACCUMULATOR PUMPS (O.S.O. #2 section III.A.2.f.)

Shut the accumulator bottles or spherical, (isolate them from the pumps & manifold) open the bleed off valve to the tank, (manifold psi should go to O psi) close bleed valve.

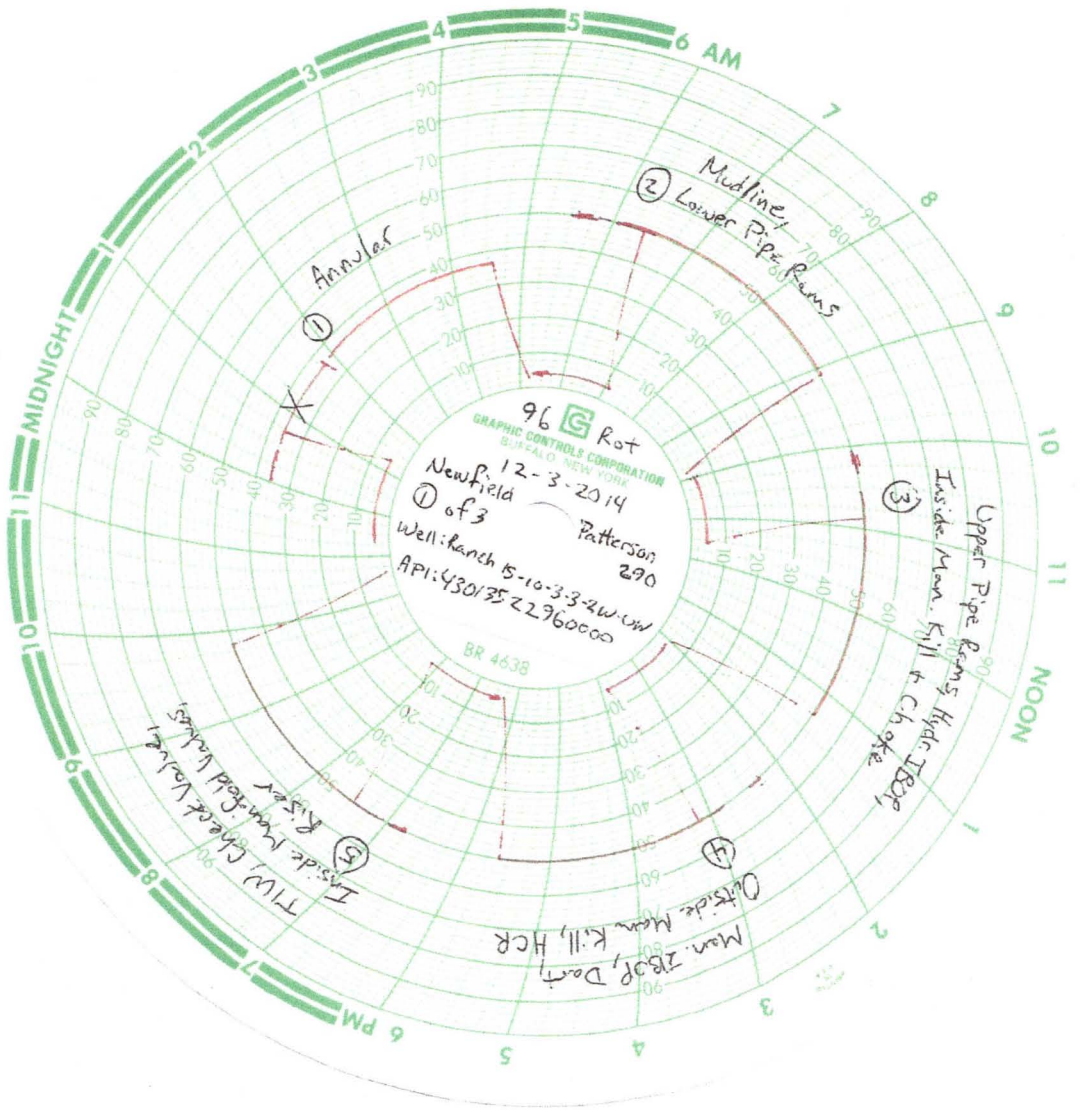
1. Open the HCR valve, (if applicable).
2. Close annular.
3. With **pumps** only, time how long it takes to regain manifold pressure to 200 psi over **desired** pre-charge pressure! (Accumulator working pressure {1500psi = 750 **desired** psi} { 2000 and 3000 psi = 1000 **desired** psi}.
4. **Record elapsed time** 1 min 3 sec (2 minutes or less)

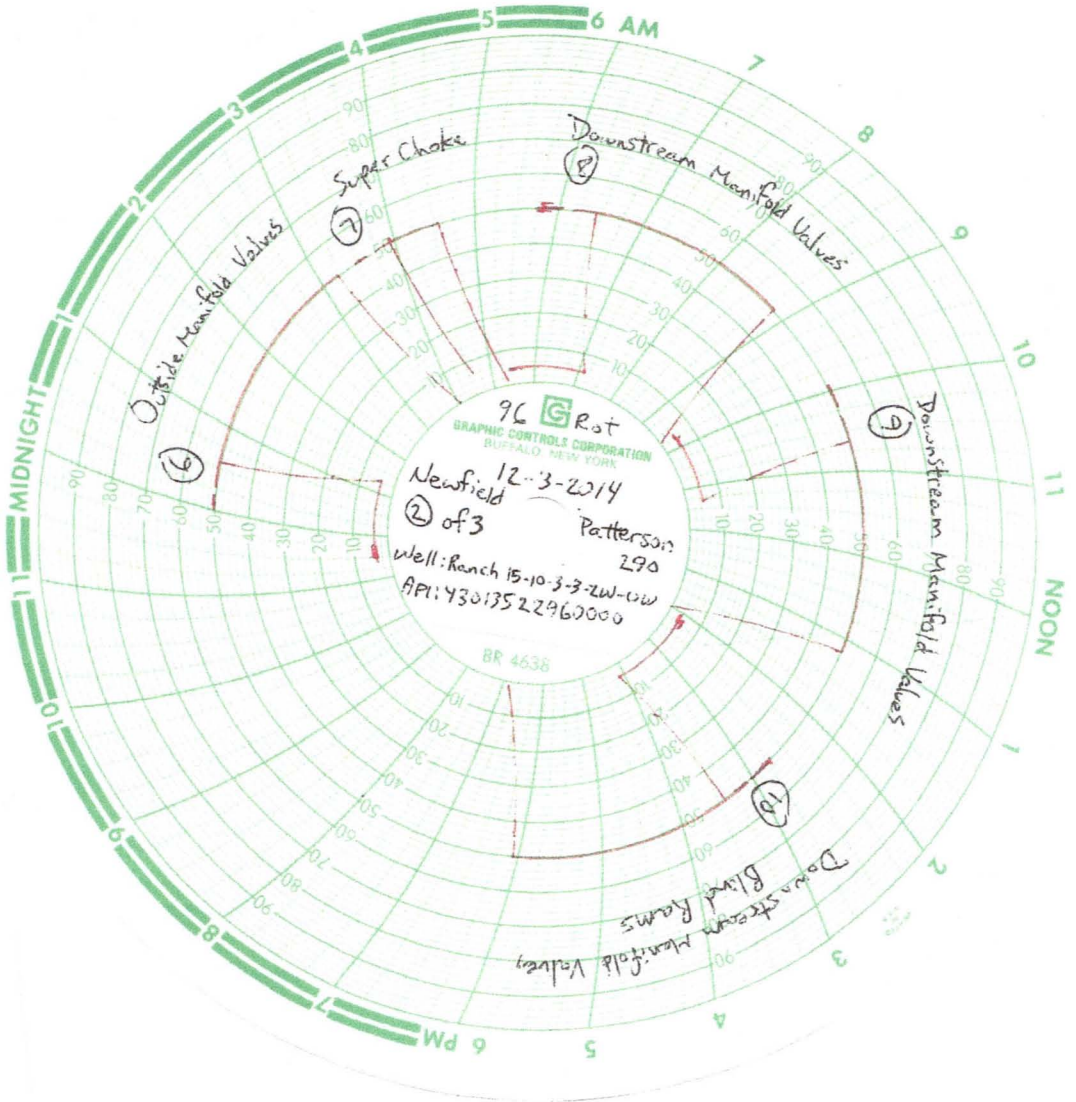
Open bottles or spherical back up and turn pumps on.

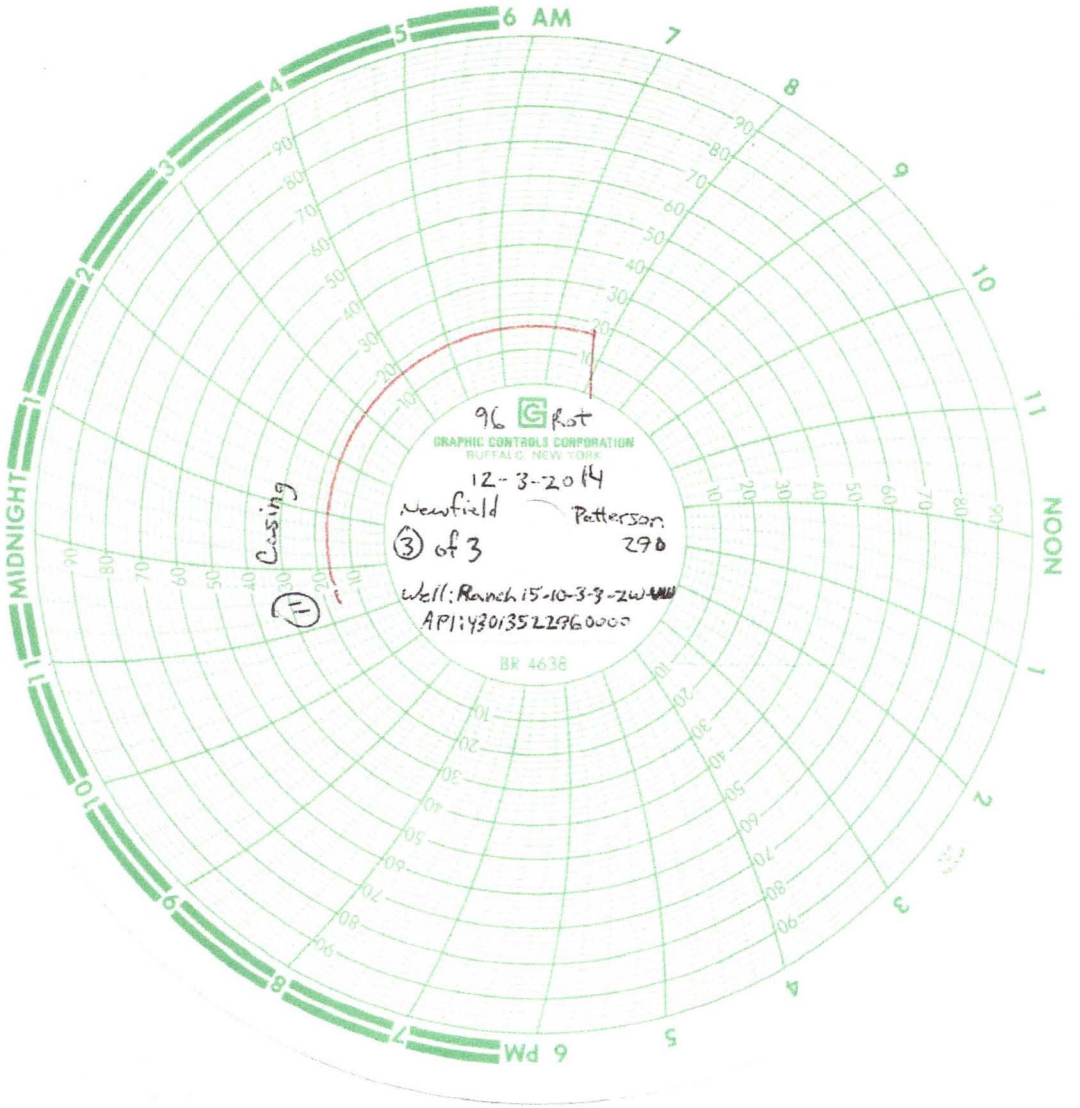
DATE: 12-3-14 COMPANY: Newfield RIG: Patterson 290 WELL NAME & #: Ranch 15-10-3-3-2W-UW

TIME	TEST NO.		RESULTS
4:50 AM☒ PM☐	1	Annular	PASS☒ FAIL☐
5:19 AM☒ PM☐	2	Mudline, lower Pipe Rams	PASS☒ FAIL☐
5:40 AM☒ PM☐	3	Upper Pipe Rams, Hydr. IBOP, Inside Man. Kill & Choke	PASS☒ FAIL☐
6:02 AM☒ PM☐	4	Man. IBOP, Outside Man. Kill, HCR, Dart	PASS☒ FAIL☐
6:45 AM☒ PM☐	5	TIW, Check Valve, Inside Manifold Valves, Riser	PASS☒ FAIL☐
7:08 AM☒ PM☐	6	Outside Manifold Valves	PASS☒ FAIL☐
7:27 AM☒ PM☐	7	Superchoke	PASS☒ FAIL☐
7:33 AM☒ PM☐	8	Downstream Manifold Valves	PASS☒ FAIL☐
7:53 AM☒ PM☐	9	Downstream Manifold Valves	PASS☒ FAIL☐
8:18 AM☒ PM☐	10	Blind Rams, Downstream Manifold Valve	PASS☒ FAIL☐
9:56 AM☒ PM☐	11	Casing	PASS☒ FAIL☐
AM☐ PM☐	12		PASS☐ FAIL☐
AM☐ PM☐	13		PASS☐ FAIL☐
AM☐ PM☐	14		PASS☐ FAIL☐
AM☐ PM☐	RETEST		PASS☐ FAIL☐
AM☐ PM☐	RETEST		PASS☐ FAIL☐
AM☐ PM☐	RETEST		PASS☐ FAIL☐
AM☐ PM☐	RETEST		PASS☐ FAIL☐
AM☐ PM☐	RETEST		PASS☐ FAIL☐
AM☐ PM☐	RETEST		PASS☐ FAIL☐
AM☐ PM☐	RETEST		PASS☐ FAIL☐
Acc. Tank Size (inches)	(W D L) 231=		gal.

WALKER INSPECTION, LLC


MIDNIGHT
AM
NOON
PM
Annular
Mudline, Lower Pipe Rams
Upper Pipe Rams, Hyd. IBOP, Choke Inside Man. Kill
Man. IBOP, Dart, Outside Man. Kill, HCR
Inside Manifold Valves, TIW, Closed Valves
96 Rot
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
12-3-2014
Newfield
1 of 3
Patterson
290
Well: Ranch 15-10-3-3-2W-UW
API: 43013522960000
BR 4638


96 Rot
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
Newfield
12-3-2014
2 of 3
Patterson
290
well: Ranch 15-10-3-3-2W-DW
API: 43013522960000
BR 4638
MIDNIGHT
6 AM
NOON
6 PM
Super Choke
Downstream Manifold Valves
Outside Manifold Valves
Downstream Manifold Valves
Downstream Manifold Valves
Blind Rams


6 AM
NOON
MIDNIGHT
96 Rot
GRAPHIC CONTROLS CORPORATION
BUFFALO NEW YORK
12-3-2014
Newfield
Patterson
290
3 of 3
Well: Ranch 15-10-3-2W
API: 43013522960000
BR 4638
Casing
11

1473

WALKER INSPECTION,LLC.
REBEL TESTING · EAGER BEAVER TESTERS
WYOMING · COLORADO · NORTH DAKOTA

Daily JSA/Observation Report

OPERATOR: Newfield

DATE: 12-2-2014 to 12-3-2014

LOCATION: Ranch 15-10-3-3-2W-UW

CONTRACTOR: Patterson 290

EMPLOYEE NAME: Dustin Redmond

[redacted] High Pressure Testing

[redacted] Working Below Platform

[redacted] Requires PPE

[redacted] Overhead Work is Occurring

Fill in if: Confined Spaces are Involved

Fill in if: Set up of Containment

[redacted] Using Rig Hoist to Lift Tools

Fill in if: Other:

COMMENTS: Safe working habits

SIGNATURE: [signature]

DATE: 12-3-2014

WALKER INSPECTION, LLC. AND AFFILIATES

ATTENDANCE:

[signature]		
[signature]		
[signature]		
[signature]		
[signature]		
[signature]		
[signature]		

Observation Report

EMPLOYEE REPORTING: Dustin Redmond SIGNATURE: [signature]

Was job set up and performed correctly and to best of companies ability? (Y) / N

Was all safety equipment used correctly by all involved? (Y) / N

Any incidents or near misses to report about WI? Y / (N)

Any incidents or near misses to report in general? Y / (N)

Any spills or environemental issues to report? Y (N)

Basic Comments:

CONFIDENTIAL

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Patterson 290
Submitted By Alvin Nielsen & Bill Snapp Phone Number 307-212-4856
Well Name/Number Ranch 15-10-3-3-2W-UW
Qtr/Qtr SW/SE Section 10 Township 3S Range 2W
Lease Serial Number Patented
API Number 43013522960000

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time _____ _____ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

☐ Surface Casing
☐ Intermediate Casing
☒ Production Casing
☐ Liner
☐ Other

Date/Time 12/18/2014 13:00 AM ☐ PM ☒

BOPE

☐ Initial BOPE test at surface casing point
☐ BOPE test at intermediate casing point
☐ 30 day BOPE test
☐ Other

Date/Time _____ _____ AM ☐ PM ☐

Remarks Patterson# 290 should run 5.5" casing on 12/18/2014 @ 13:00 on the Ranch 15-10-3-3-2W-UW

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: Patented

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: RANCH 15-10-3-3-2W-UW

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 43013522960000

3. ADDRESS OF OPERATOR: 1001 17th Street, Suite 2000 , Denver, CO, 80202

PHONE NUMBER: 303 382-4443 Ext

9. FIELD and POOL or WILDCAT: NORTH MYTON BENCH

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0368 FSL 2311 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 10 Township: 03.0S Range: 02.0W Meridian: U

COUNTY: DUCHESNE

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ NOTICE OF INTENT — Approximate date work will start:
- ☑ SUBSEQUENT REPORT — Date of Work Completion: 12/22/2014
- ☐ SPUD REPORT — Date of Spud:
- ☐ DRILLING REPORT — Report Date:

TYPE OF ACTION

☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
☐ WILDCAT WELL DETERMINATION	☑ OTHER	OTHER: FIRMUS Construction Materia

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Please see attached FIRMUS Process Post Job Report.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
January 27, 2015

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Melissa Luke	303 323-9769	Regulatory Technician

SIGNATURE	DATE
N/A	1/27/2015

RECEIVED: Jan. 27, 2015

Firmus® Process Subsequent Sundry Notice:

This Subsequent Sundry Notice is being submitted to report that the drill pad at the Ranch 15-10-3-3-2W-UW/Ute Tribal 14-10-3-3-2W-MW location was constructed predominantly from oil base drilling cuttings that had been generated during earlier drilling at the locations listed below. After the drilling at those earlier-drilled locations, the cuttings were prestabilized, and a total of 3600 Loose Cubic Yards (LCY) of these prestabilized drill cuttings from the locations listed below were assembled at the Ranch 15-10-3-3-2W-UW/Ute Tribal 14-10-3-3-2W-MW location, where they were consolidated by a Firmus® process into the drilling pad for that location. Attached is the Firmus® Process Post Job Report for your review and records.

The previously drilled locations from which pre-stabilized drilling cuttings were taken and the amounts taken from each location were: (1). Ranch 16-10-3-3-2WH/Aubrey 1A-15-22-3-2WH (API # 43013521720000/ 43013522700000): 2040 LCY; (2). Jorgensen 2-4-9-3-2WH (API # 43013521070000): 900 LCY; (3) Perank 13-10-3-3-3WH (API # 43013518910000): 660 LCY.

RECEIVED: Jan. 27, 2015

NEWFIELD

July 28, 2014

Dart Homestead Ranch, Inc.
c/o Bruce Dart, President
Route 2, Box 2044
Roosevelt, UT 84066

Newfield Exploration Company
1001 17th Street | Suite 2000
Denver, Colorado 80202
PH 303-893-0102 | FAX 303-893-0103

RE: Oil Based Mud Cuttings
Section 10: S2SW, SWSE
Township 3 South, Range 2 West
Duchesne County, Utah

Dear Mr. Dart,

Newfield Production Company ("Newfield") is preparing to construct the access roads and drillsite locations for the Ute Tribal 13-10-3-3-2WH, Ranch 15-10-3-3-2WH, and Ute Tribal 14-10-3-3-2WH on your property. Newfield requests your permission to use treated oil based mud cuttings in the construction process of the aforementioned access roads and drillsite locations. Oil based mud is often used in the drilling process, but once drilling is completed, the oil based mud cuttings are dried and treated to render them harmless and usable for the drillsite construction and access roads.

In the application process, a six (6) inch layer of the treated oil based mud cuttings will be mixed what an additional curing agent and distributed over the natural ground, and/or a subgrade of the drillsite location, and will spontaneously harden to serve as the base layer of the drillsite location. Lastly, a two to three (2-3) inch layer of gravel will be laid over the top of the treated and hardened oil based mud cuttings to complete the construction process. The benefits of using the treated oil based mud cuttings include decreased maintenance from weather related erosion and vastly improved dust control compared to standard building materials. Furthermore, the process is environmentally friendly.

If the foregoing meets your approval, please sign in the space provided and return to Newfield Production Company, 1001 17th St, Suite 2000, Denver, CO 80202, Attn: Shane Gillespie.

If you have any questions, I can be reached at (303) 383-4197.

My Regards,

Shane Gillespie
Sr. Landman
Newfield Exploration Company

AGREED to and ACCEPTED this 14 **day of** august **, 2014.**

By: Bruce Dart, President

FIRMUS® POST JOB REPORT

WELL NAME: Firmus® Location: FC2853-UT Ranch 15(14)-10-3-3-2W-UW(MW)

AFE #: 43291D and 43292D

REPORT DATE: 01/06/15

START DATE: 08/16/14

COMPLETION DATE: 08/26/14

SCOTT QUOTE #: FC2853-UT

COUNTY: Duchesne

LATITUDE: 40.2180556° N

LONGITUDE: 110.0946389° W

JOB SUMMARY:

Drill cuttings were pre-stabilized on the following wells either during drilling or after drilling was completed.

Well Name	AFE #	Sampling Date	Volume
Ranch 16-10-3-3-2WH/ Aubrey 1A-15-22-3-2WH	41985D 41569D	8/2/2014	2040 LCY
Jorgensen 2-4-9-3-2WH	26582D	4/11/2014	900 LCY
Perank 13-10-3-3-3WH	42049D	4/10/2014	660 LCY

A total of 3600 Loose Cubic Yards (LCY) of pre-stabilized construction material was placed on a 430' x 335' area of lease pad, excluding a 80' x 80' pit area to form the drill pad at the Ranch 15(14)-10-3-3-2W-UW(MW).

Analytical testing was performed on the cuttings from the generating locations. Confirmatory sampling and testing was performed on the receiving site. Confirmatory samples are taken on every 1,000 Compacted Cubic Yards (CCY) of pre-stabilized cuttings. Four grab samples are taken from each 1,000 CCY and composited for testing. All confirmatory Leachate and Geotechnical results fall within acceptable levels.

Enclosed

CONFIRMATORY TEST SUMMARY

	Leachate Summary		
	Sample A	Sample B	Sample C
Benzene (mg/kg)	<0.00100	<0.00100	<0.00100
C6-C36 TPH (mg/L)	1.58	<1.30	<1.30
pH (SU)	11.2	11.2	11.3
Chloride (mg/L)	32.8	68.4	35.7
Metals			
SPLP Arsenic (mg/L)	<0.0100	<0.0100	<0.0100
SPLP Cadmium (mg/L)	<0.00500	<0.00500	<0.00500
SPLP Barium (mg/L)	<2.00	<2.00	<2.00
SPLP Chromium (mg/L)	<0.100	<0.100	<0.100
SPLP Lead (mg/L)	<0.00500	<0.00500	<0.00500
SPLP Mercury (mg/L)	<0.000200	<0.000200	<0.000200
SPLP Selenium (mg/L)	<0.0500	<0.0500	<0.0500
SPLP Silver (mg/L)	<0.100	<0.100	<0.100
SPLP Zinc (mg/L)	<0.0100	<0.0100	<0.0100

	Geotechnical Summary		
	A	B	B
Compressive Strength (psi)	286.3	126.1	239.6
Hydraulic Conductivity (cm/sec)	6.37E-08	4.28E-08	5.73E-08

ANALYTICAL SUMMARY

	Ranch 16-10-3-3-2WH/ Aubrey 1A-15-22-3-2WH Pioneer Rig # 78	Jorgensen 2-4-9-3-2WH Pioneer Rig # 78	Perank 13-10-3-3-3WH Pioneer Rig # 44
Cubic Yards	2,040	900	660
Total Solids (%)	90.6	88.1	91.9
Benzene (mg/kg)	<0.250	<0.0558	<0.0596
C6-C36 TPH (mg/kg)	126,000	113,000	159,000
pH (SU)	9.5	11.4	11.3
Chloride (mg/kg)	2,450	4,950	3,950
Sulfates (mg/kg)	2,070	1,430	1,270
Metals			
Arsenic (mg/kg)	12.2	7.67	6.29
Cadmium (mg/kg)	<2.50	<2.50	<2.50
True Total Barium (mg/kg)	163,000	229,000	171,000
Chromium (mg/kg)	28.6	19.9	23.4
Lead (mg/kg)	13.9	9.21	14.0
Mercury (mg/kg)	0.0366	0.0361	0.0511
Selenium (mg/kg)	<2.50	<2.50	<2.50
Silver (mg/kg)	<2.50	<2.50	<2.50
Zinc (mg/kg)	31.6	39.6	50.3

Ranch 15(14)-10-3-3-2W-UW(MW)

FC2853-UT

GCO Labs, LLC
3505 West Loop 281
Longview, Texas 75604
903 / 291-0137
www.gco-labs.com

Customer:

J. Blake Scott
Scott Environmental Services, Inc.
P.O. Box 6215
Longview, Texas 75608
USA

Project: **FC2853-UT**
Cust. Sample: **FIRMUS A**
Lab ID: 141119Q004

Collected; 8/22/2014
Received: 11/19/2014
Report Date: 12/16/2014

Analysis	Results	Units	Method	Date	Time	Tech
Chloride, 7-Day Leach	32.8	mg/L	LA 29B	12/1/2014	15:56	fgo
pH@25C on 7-Day Leach	11.2	SU	LA 29B	12/1/2014	13:00	fgo
Prep. 7-Day Day Leachate	1,950	g	LA29B*Modified	11/24/2014	9:00	fgo
Total Solids for Dry Wt	95.3	%	SM 2540 G	11/20/2014	15:10	fgo
SPLP Extraction: Non-Volatile	Completed	Result	SW-846 1312	11/20/2014	8:00	fgo
SPLP ZHE Extraction	100% Solid	mL/g	SW-846 1312	11/24/2014	15:20	fgo
Metals Digestion SPLP 3010	50/100	mL/mL	SW-846 3010B	11/26/2014	9:00	fgo
SPLP Arsenic	< 0.0100	mg/L	SW-846 6010B	12/2/2014	12:02	fgo
SPLP Barium	< 2.00	mg/L	SW-846 6010B	12/2/2014	12:02	fgo
SPLP Cadmium	< 0.00500	mg/L	SW-846 6010B	12/2/2014	12:02	fgo
SPLP Chromium	< 0.100	mg/L	SW-846 6010B	12/2/2014	12:02	fgo
SPLP Lead	< 0.00500	mg/L	SW-846 6010B	12/2/2014	12:02	fgo
SPLP Selenium	< 0.0500	mg/L	SW-846 6010B	12/2/2014	12:02	fgo
SPLP Silver	< 0.100	mg/L	SW-846 6010B	12/2/2014	12:02	fgo
SPLP Zinc	< 0.0100	mg/L	SW-846 6010B	12/2/2014	12:02	fgo
Metal Digestion SPLP 7470	50/50	mL/mL	SW-846 7470A	12/2/2014	10:10	fgo
SPLP Mercury	< 0.000200	mg/L	SW-846 7470A	12/3/2014	10:56	fgo
SPLP Benzene	< 0.00100	mg/L	SW-846 8260B	12/1/2014	22:50	fgo
1005 TPH Extraction	3/115	mL/mL	TNRCC TX 1005	12/1/2014	11:00	fgo
C12 - C28 TPH, 7-Day Leach	1.58	mg/L	TNRCC TX 1005	12/1/2014	21:25	fgo
C28 - C36 TPH, 7-Day Leach	< 1.30	mg/L	TNRCC TX 1005	12/1/2014	21:25	fgo
C6 - C12 TPH, 7-Day Leach	< 1.30	mg/L	TNRCC TX 1005	12/1/2014	21:25	fgo
C6 - C36 TPH, 7-Day Leach	1.58	mg/L	TNRCC TX 1005	12/1/2014	21:25	fgo

GCO Labs, LLC
3505 West Loop 281
Longview, Texas 75604
903 / 291-0137
www.gco-labs.com

Project: **FC2853-UT**
Cust. Sample: **FIRMUS B**
Lab ID: 141119Q005

Collected; 8/22/2014
Received: 11/19/2014
Report Date: 12/16/2014

Analysis	Results	Units	Method	Date	Time	Tech
Chloride, 7-Day Leach	68.4	mg/L	LA 29B	12/1/2014	16:09	fgo
pH@25C on 7-Day Leach	11.2	SU	LA 29B	12/1/2014	13:00	fgo
Prep. 7-Day Day Leachate	1,960	g	LA29B*Modified	11/24/2014	9:00	fgo
Total Solids for Dry Wt	93.9	%	SM 2540 G	11/20/2014	15:10	fgo
SPLP Extraction: Non-Volatile	Completed	Result	SW-846 1312	11/20/2014	8:00	fgo
SPLP ZHE Extraction	100% Solid	mL/g	SW-846 1312	11/25/2014	15:00	fgo
Metals Digestion SPLP 3010	50/100	mL/mL	SW-846 3010B	11/26/2014	9:00	fgo
SPLP Arsenic	< 0.0100	mg/L	SW-846 6010B	12/2/2014	12:02	fgo
SPLP Barium	< 2.00	mg/L	SW-846 6010B	12/2/2014	12:02	fgo
SPLP Cadmium	< 0.00500	mg/L	SW-846 6010B	12/2/2014	12:02	fgo
SPLP Chromium	< 0.100	mg/L	SW-846 6010B	12/2/2014	12:02	fgo
SPLP Lead	< 0.00500	mg/L	SW-846 6010B	12/2/2014	12:02	fgo
SPLP Selenium	< 0.0500	mg/L	SW-846 6010B	12/2/2014	12:02	fgo
SPLP Silver	< 0.100	mg/L	SW-846 6010B	12/2/2014	12:02	fgo
SPLP Zinc	< 0.0100	mg/L	SW-846 6010B	12/2/2014	12:02	fgo
Metal Digestion SPLP 7470	50/50	mL/mL	SW-846 7470A	12/2/2014	10:10	fgo
SPLP Mercury	< 0.000200	mg/L	SW-846 7470A	12/3/2014	10:56	fgo
SPLP Benzene	< 0.00100	mg/L	SW-846 8260B	12/1/2014	23:20	fgo
1005 TPH Extraction	3/116	mL/mL	TNRCC TX 1005	12/1/2014	11:00	fgo
C12 - C28 TPH, 7-Day Leach	< 1.30	mg/L	TNRCC TX 1005	12/1/2014	21:59	fgo
C28 - C36 TPH, 7-Day Leach	< 1.30	mg/L	TNRCC TX 1005	12/1/2014	21:59	fgo
C6 - C12 TPH, 7-Day Leach	< 1.30	mg/L	TNRCC TX 1005	12/1/2014	21:59	fgo
C6 - C36 TPH, 7-Day Leach	< 1.30	mg/L	TNRCC TX 1005	12/1/2014	21:59	fgo

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Project: **FC2853-UT**
Cust. Sample: **FIRMUS C**
Lab ID: 141119Q006

Collected; 8/22/2014
Received: 11/19/2014
Report Date: 12/16/2014

Analysis	Results	Units	Method	Date	Time	Tech
Chloride, 7-Day Leach	35.7	mg/L	LA 29B	12/1/2014	16:24	fgo
pH@25C on 7-Day Leach	11.3	SU	LA 29B	12/1/2014	13:00	fgo
Prep. 7-Day Day Leachate	1,870	g	LA29B*Modified	11/24/2014	9:00	fgo
Total Solids for Dry Wt	93.8	%	SM 2540 G	11/20/2014	15:10	fgo
SPLP Extraction: Non-Volatile	Completed	Result	SW-846 1312	11/20/2014	8:00	fgo
SPLP ZHE Extraction	100% Solid	mL/g	SW-846 1312	11/25/2014	15:00	fgo
Metals Digestion SPLP 3010	50/100	mL/mL	SW-846 3010B	11/26/2014	9:00	fgo
SPLP Arsenic	< 0.0100	mg/L	SW-846 6010B	12/2/2014	12:02	fgo
SPLP Barium	< 2.00	mg/L	SW-846 6010B	12/2/2014	12:02	fgo
SPLP Cadmium	< 0.00500	mg/L	SW-846 6010B	12/2/2014	12:02	fgo
SPLP Chromium	< 0.100	mg/L	SW-846 6010B	12/2/2014	12:02	fgo
SPLP Lead	< 0.00500	mg/L	SW-846 6010B	12/2/2014	12:02	fgo
SPLP Selenium	< 0.0500	mg/L	SW-846 6010B	12/2/2014	12:02	fgo
SPLP Silver	< 0.100	mg/L	SW-846 6010B	12/2/2014	12:02	fgo
SPLP Zinc	< 0.0100	mg/L	SW-846 6010B	12/2/2014	12:02	fgo
Metal Digestion SPLP 7470	50/50	mL/mL	SW-846 7470A	12/2/2014	10:10	fgo
SPLP Mercury	< 0.000200	mg/L	SW-846 7470A	12/3/2014	10:56	fgo
SPLP Benzene	< 0.00100	mg/L	SW-846 8260B	12/1/2014	23:50	fgo
1005 TPH Extraction	3/115	mL/mL	TNRCC TX 1005	12/1/2014	11:00	fgo
C12 - C28 TPH, 7-Day Leach	< 1.30	mg/L	TNRCC TX 1005	12/1/2014	22:32	fgo
C28 - C36 TPH, 7-Day Leach	< 1.30	mg/L	TNRCC TX 1005	12/1/2014	22:32	fgo
C6 - C12 TPH, 7-Day Leach	< 1.30	mg/L	TNRCC TX 1005	12/1/2014	22:32	fgo
C6 - C36 TPH, 7-Day Leach	< 1.30	mg/L	TNRCC TX 1005	12/1/2014	22:32	fgo

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Quality Control Data

Analyte	QC Parameter		Result	Units	Reference Value	Units
Chloride	Blank	Method Blank	< 5.0	ppm		
	CCV1	Recovery	103	%	True Value	20 ppm
	CCV2	Recovery	95.7	%	True Value	10 ppm
	CCV3	Recovery	96.7	%	True Value	10 ppm
	Dup-A	A Reading	18.8	ppm		
	Dup-B	B Reading	17.5	ppm		
	Dup-RPD1	Relative% Difference	6.9	%		
	Dup-C	Reading	485	ppm		
	Dup-D	Reading	422.5	ppm		
	Dup-RPD2	Relative% Difference	13.8	%		
	MS	Recovery	90.9	%	Spike Amount	8 ppm
	MS	Recovery	111	%	Spike Amount	8 ppm
C6-C12 TPH	Blank	Method Blank	< 1.3	ppm		
	CCV1	Recovery	99.2	%	True Value	1000 ppm
	CCV2	Recovery	109	%	True Value	1000 ppm
	LCS	Recovery	91.9	%	Spike Amount	500 ppm
	LCSD	Recovery	85.6	%	Spike Amount	500 ppm
	LCS-RPD	Relative% Difference	7.05	%		
	MS	Recovery	101	%	Spike Amount	500 ppm
	MSD	Recovery	97.1	%	Spike Amount	500 ppm
	MS-RPD	Relative% Difference	3.69	%		
C12-C28 TPH	Blank	Method Blank	< 1.3	ppm		
	CCV1	Recovery	102	%	True Value	500 ppm
	CCV2	Recovery	127	%	True Value	1000 ppm
	LCS	Recovery	80.6	%	Spike Amount	500 ppm
	LCSD	Recovery	86.9	%	Spike Amount	500 ppm
	LCS-RPD	Relative% Difference	7.47	%		
	MS	Recovery	110	%	Spike Amount	500 ppm
	MSD	Recovery	122	%	Spike Amount	500 ppm
	MS-RPD	Relative% Difference	10	%		
SPLP Benzene	Blank	Method Blank	< 0.0010	ppm		
	CCV1	Recovery	100	%	True Value	0.02 ppm
	LCS	Recovery	100	%	Spike Amount	0.02 ppm
	LCSD	Recovery	98.2	%	Spike Amount	0.02 ppm
	LCS-RPD	Relative% Difference	2.17	%		
	MS	Recovery	97	%		0.02 ppm
	MSD	Recovery	93.8	%	Spike Amount	0.02 ppm
	MS-RPD	Relative% Difference	3.4	%		

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Analyte	QC Parameter		Result	Units	Reference Value	Units
pH at 25 C	Dup-A(pH)	Reading	11.52	SU		
	Dup-B(pH)	Reading	11.53	SU		
	Dup-RPD1	Relative% Difference	0.09	%		
	pH 10 Buffer(1st)	Reading	10.02	SU	True Value	10.01 SU
	pH 10 Buffer(2nd)	Reading	9.99	SU	True Value	10.01 SU
	pH 7 Buffer(1st)	Reading	7	SU	True Value	7 SU
	pH 7 Buffer(2nd)	Reading	6.97	SU	True Value	7 SU
SPLP Silver	Blank	Method Blank	< 0.10	ppm		
	CCV1	Recovery	104	%	True Value	1 ppm
	CCV2	Recovery	109	%	True Value	1 ppm
	CCV3	Recovery	107	%	True Value	1 ppm
	ICV	Recovery	102	%	True Value	1 ppm
	LCS	Recovery	98.3	%	Spike Amount	0.2 ppm
	LCSD	Recovery	92.5	%	Spike Amount	0.2 ppm
	LCS-RPD	Relative% Difference	6.08	%		
	MS	Recovery	92.9	%	Spike Amount	0.2 ppm
	MSD	Recovery	84.8	%	Spike Amount	0.2 ppm
	MS-RPD	Relative% Difference	9.12	%		
SPLP Arsenic	Blank	Method Blank	< 0.010	ppm		
	CCV1	Recovery	106	%	True Value	5 ppm
	CCV2	Recovery	110	%	True Value	5 ppm
	CCV3	Recovery	108	%	True Value	5 ppm
	ICV	Recovery	101	%	True Value	5 ppm
	LCS	Recovery	98.8	%	Spike Amount	1 ppm
	LCSD	Recovery	92.3	%	Spike Amount	1 ppm
	LCS-RPD	Relative% Difference	6.8	%		
	MS	Recovery	91.9	%	Spike Amount	1 ppm
	MSD	Recovery	86.6	%	Spike Amount	1 ppm
	MS-RPD	Relative% Difference	5.94	%		
SPLP Barium	Blank	Method Blank	< 2.0	ppm		
	CCV1	Recovery	96.7	%	True Value	5 ppm
	CCV2	Recovery	103	%	True Value	5 ppm
	CCV3	Recovery	101	%	True Value	5 ppm
	ICV	Recovery	93.2	%	True Value	5 ppm
	LCS	Recovery	98.8	%	Spike Amount	1 ppm
	LCSD	Recovery	87.9	%	Spike Amount	1 ppm
	LCS-RPD	Relative% Difference	11.7	%		
	MS	Recovery	80.3	%	Spike Amount	1 ppm
	MSD	Recovery	69.3	%	Spike Amount	1 ppm
	MS-RPD	Relative% Difference	14.7	%		
SPLP Cadmium	Blank	Method Blank	< 0.0050	ppm		
	CCV1	Recovery	105	%	True Value	2.5 ppm
	CCV2	Recovery	109	%	True Value	2.5 ppm
	CCV3	Recovery	107	%	True Value	2.5 ppm
	ICV	Recovery	101	%	True Value	2.5 ppm
	LCS	Recovery	98.9	%	Spike Amount	0.5 ppm
	LCSD	Recovery	93.4	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	5.72	%		
	MS	Recovery	85.2	%	Spike Amount	0.5 ppm

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Analyte	QC Parameter		Result	Units	Reference Value	Units
	MSD	Recovery	80.7	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	5.42	%		
SPLP Chromium	Blank	Method Blank	< 0.10	ppm		
	CCV1	Recovery	102	%	True Value	5 ppm
	CCV2	Recovery	107	%	True Value	5 ppm
	CCV3	Recovery	105	%	True Value	5 ppm
	ICV	Recovery	97.5	%	True Value	5 ppm
	LCS	Recovery	96.3	%	Spike Amount	1 ppm
	LCSD	Recovery	90.3	%	Spike Amount	1 ppm
	LCS-RPD	Relative% Difference	6.43	%		
	MS	Recovery	84.5	%	Spike Amount	1 ppm
	MSD	Recovery	78	%	Spike Amount	1 ppm
	MS-RPD	Relative% Difference	8	%		
SPLP Mercury	Blank	Method Blank	< 0.00020	ppm		
	CCV1	Recovery	100	%	True Value	10 ppm
	CCV2	Recovery	103	%	True Value	10 ppm
	CCV3	Recovery	104	%	True Value	10 ppm
	ICV	Recovery	107	%	True Value	10 ppm
	LCS	Recovery	96	%	Spike Amount	10 ppm
	LCSD	Recovery	97.1	%	Spike Amount	10 ppm
	LCS-RPD	Relative% Difference	1.14	%		
	MS	Recovery	101	%	Spike Amount	0.01 ppm
	MSD	Recovery	111	%	Spike Amount	0.01 ppm
	MS-RPD	Relative% Difference	9.51	%		
SPLP Lead	Blank	Method Blank	< 0.0050	ppm		
	CCV1	Recovery	106	%	True Value	5 ppm
	CCV2	Recovery	110	%	True Value	5 ppm
	CCV3	Recovery	108	%	True Value	5 ppm
	ICV	Recovery	101	%	True Value	5 ppm
	LCS	Recovery	101	%	Spike Amount	1 ppm
	LCSD	Recovery	95.2	%	Spike Amount	1 ppm
	LCS-RPD	Relative% Difference	5.91	%		
	MS	Recovery	87.6	%	Spike Amount	1 ppm
	MSD	Recovery	82.7	%	Spike Amount	1 ppm
	MS-RPD	Relative% Difference	5.75	%		
SPLP Selenium	Blank	Method Blank	< 0.050	ppm		
	CCV1	Recovery	106	%	True Value	5 ppm
	CCV2	Recovery	109	%	True Value	5 ppm
	CCV3	Recovery	108	%	True Value	5 ppm
	ICV	Recovery	102	%	True Value	5 ppm
	LCS	Recovery	96.3	%	Spike Amount	1 ppm
	LCSD	Recovery	89.2	%	Spike Amount	1 ppm
	LCS-RPD	Relative% Difference	7.65	%		
	MS	Recovery	88.5	%	Spike Amount	1 ppm
	MSD	Recovery	82.5	%	Spike Amount	1 ppm
	MS-RPD	Relative% Difference	7.02	%		
SPLP Zinc	Blank	Method Blank	< 0.010	ppm		
	CCV1	Recovery	106	%	True Value	5 ppm
	CCV2	Recovery	109	%	True Value	5 ppm

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Analyte	QC Parameter		Result	Units	Reference Value	Units
	CCV3	Recovery	107	%	True Value	5 ppm
	ICV	Recovery	101	%	True Value	5 ppm
	LCS	Recovery	98.4	%	Spike Amount	1 ppm
	LCSD	Recovery	93.3	%	Spike Amount	1 ppm
	LCS-RPD	Relative% Difference	5.32	%		
	MS	Recovery	84.9	%	Spike Amount	1 ppm
	MSD	Recovery	79.6	%	Spike Amount	1 ppm
	MS-RPD	Relative% Difference	6.44	%		
Total Solids	Blank%	Method Blank	< 0.10	%		
	Dup-A%	A Reading	96.1	%		
	Dup-B%	B Reading	95.9	%		
	Dup-RPD1	Relative% Difference	0.184	%		
	Dup-C%	Reading	88.8	%		
	Dup-D%	Reading	91.3	%		
	Dup-RPD2	Relative% Difference	2.79	%		

Approved by

Greg Oliver, Lab Manager

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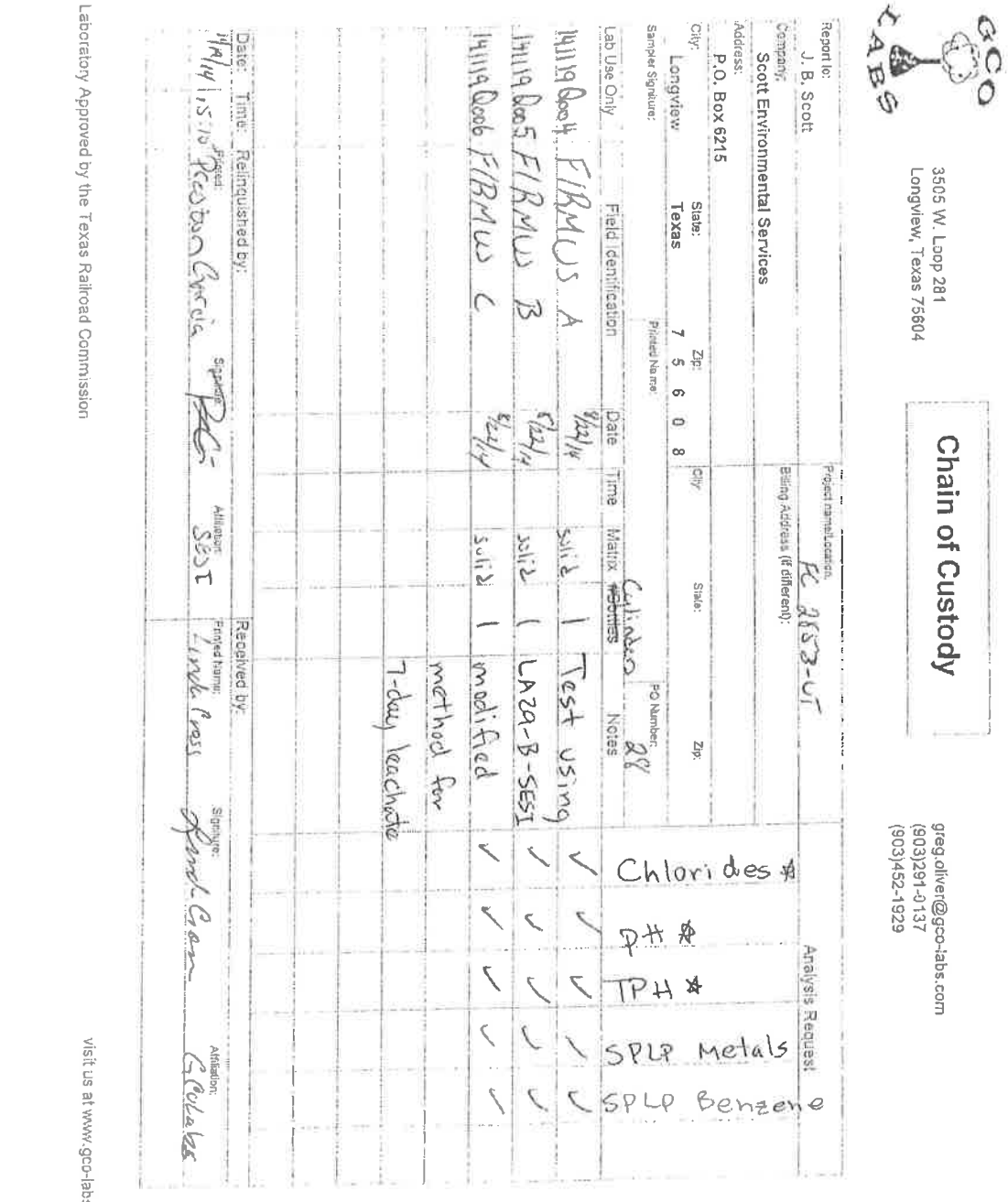

GCO LABS

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Chain of Custody

greg.oliver@gco-labs.com
(903)291-0137
(903)452-1929

Report to: J. B. Scott
Company: Scott Environmental Services
Address: P.O. Box 6215
City: Longview State: Texas Zip: 75608
Sampler Signature: Printed Name:

Project name/Location: FC 2853-UT
Billing Address (if different):
City: State: Zip:
PO Number: 28

Lab Use Only	Field Identification	Date	Time	Matrix	# Containers	Notes	Chlorides *	Q# *	TPH *	SPLP Metals	SPLP Benzene
141119Q004	FIRMWS A	11/21/14		soil	1	Test using	✓	✓	✓	✓	✓
141119Q005	FIRMWS B	11/21/14		soil	1	LAZA-B-SESI	✓	✓	✓	✓	✓
141119Q006	FIRMWS C	11/21/14		soil	1	modified	✓	✓	✓	✓	✓
						method for 7-day leachate					

Analysis Request

Date: Time: Relinquished by: Received by:
Printed: Signature: Affiliation:
11/21/14 1515 Printed name: Signature: Affiliation:
Printed name: Signature: Affiliation:

Laboratory Approved by the Texas Railroad Commission

visit us at www.gco-labs.com

Ranch 15(14)-10-3-3-2W-UW(MW)

FC2853-UT

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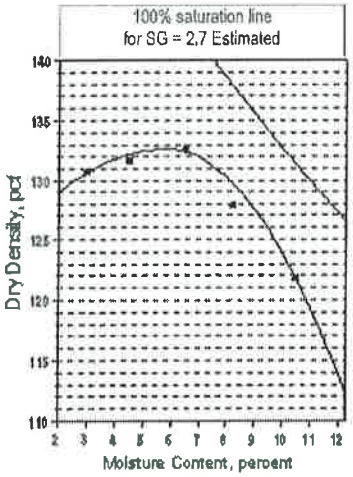
707 West Colton St.	Longview, TX 75604	(903) 758-0402
2000 E Randol Mill Rd. Ste 613	Arlington, TX 76011	(817) 962-0048

Acct ID: SCOTTENV Proj. No.: C6109-141 Date Sampled: 09/10/2014
Report Date: 11/12/2014 Sampled By: Client
Project: Scott Environmental General File 2014, Longview,TX By Order Of: Blake Scott
Location: Material origin: Onsite, Sample location: FC2853-UT (A) Order Number:
Client: Scott Environmental Services, Longview, TX
Contractor: Not Given

REPORT: **Modified Proctor** LAB NO: S-12598
Material: POBC-A Test Method: See Below

Client PO: 8 **TEST RESULTS** Report No: 1-1700-000123
Page 1 of 5



% Moisture		Dry Density Lbs./Cu.Ft.	
2.9		130.5	
4.6		131.6	
6.4		132.6	
8.3		127.9	
10.5		121.8	
6.0	**Optimum**	**132.5**	**Maximum**

Color: Gray & Brown
Description: POBC-A

Standard Method:A
Desc of Rammer:Mechanical
Preparation Method:Moist
Remarks: These tests were performed solely at the request of the Client for his own use. No warranties are expressed or implied regarding the suitability of the site for construction or whether or not the reported data represents all conditions of the site.
Test Method (As Applicable):ASTM D1557, Method-A

Charge: Scott Environmental Services, Longview, TX Attn: Blake Scott
Orig: Scott Environmental Services, Longview, TX Attn: Blake Scott

Respectfully Submitted,
ETTL Engineers & Consultants, Inc.

Hermann Walka, P.E.

THIS REPORT APPLIES ONLY TO THE STANDARDS OR PROCEDURES INDICATED AND TO THE SAMPLE(S) TESTED AND/OR OBSERVED AND ARE NOT NECESSARILY INDICATIVE OF THE QUALITIES OF APPARENTLY IDENTICAL OR SIMILAR PRODUCTS OR PROCEDURES, NOR DO THEY REPRESENT AN ONGOING QUALITY ASSURANCE PROGRAM UNLESS SO NOTED. THESE REPORTS ARE FOR THE EXCLUSIVE USE OF THE ADDRESSED CLIENT AND ARE NOT TO BE REPRODUCED WITHOUT WRITTEN PERMISSION.
REPORT CREATED BY ElmTree SYSTEM

ETTL Engineers & Consultants Inc.

GEOTECHNICAL ✶ MATERIALS ✶ ENVIRONMENTAL ✶ DRILLING ✶ LANDFILLS

Compressive Strength of Molded Soil-Cement Cylinders, ASTM D 1633 Method A

Unconfined Compressive Strength of Compacted Soil-Lime Mixtures, ASTM D 5102 Procedure B

Project Information

Project: SESI Job # FC 2853-UT (A)
Client/Arch./Engr.: Scott Enviromental Services Inc: Longview, Texas
Contractor: Not Given
Job No.: C 6109-141

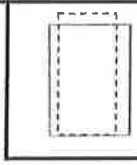
Sample Information

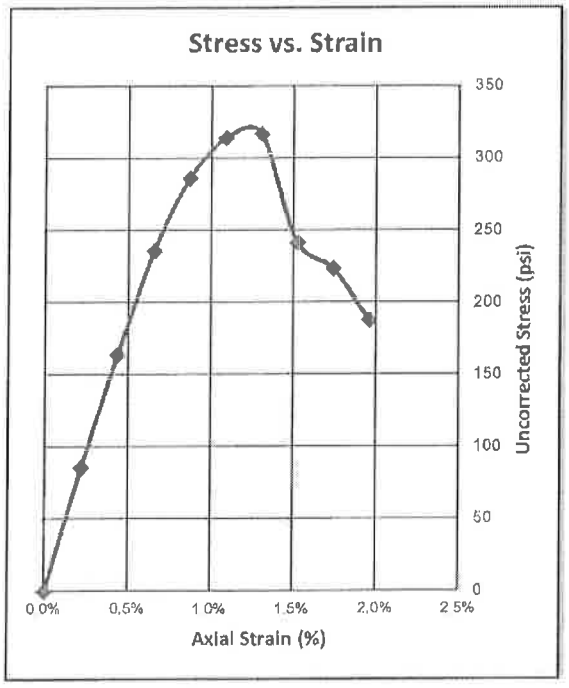
Location/Boring No: SESI Job # FC 2853-UT (A) Sample Date: 8/22/2014
Sample No.: 12598 Depth: ft.
Material Origin: On Site
Sampling Info. provided By: Client
Material Description: Gray & Brown POBC-A
Sampled By: SESI
Technician: Todd Sliger Test Date: 9/23/2014

Test Data

Curing Method:
Sample moist cured at temperature of ~73 deg F for 7 days prior to conducting test.

Molding Method:	**ASTM D 1557**	
Optimum Moisture Content:	6.0%	
Maximum Density:	132.5	pcf
Molded Moisture Content:	6.4%	
Molded Density:	132.6	pcf
Diameter Before Curing:	3.994	in
Height Before Curing:	4.591	in
H/D Ratio Before Curing:	1.149	
Diameter After Curing:	4.021	in
Height After Curing:	4.600	in
H/D Ratio After Curing:	1.144	
Area After Curing:	12.70	in^2
H/D Correction Factor:	0.905	
Seating Load:	15.0	lbs.
Compression Load:	4072	lbs.
Total Load:	4087	lbs.
Confining Pressure:	0.0	psi
Maximum Stress:	321.8	psi
Corrected Maximum Stress:	**286.3**	psi
Peak Strain:	**1.3%**	
Failure Type:	Cylindrical	





Respectfully Submitted,

Hermann Walka, P.E.

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GEOTECHNICAL * MATERIALS * ENVIRONMENTAL * DRILLING * LANDFILLS

Hydraulic Conductivity Determination Flexible Wall Permeameter (Mercury Permometer Test) ASTM D 5084, Method E

Project Information

Project: SESI Job # FC 2853-UT (A) Scott Environmental Services, Longview
Client/Arch./Engr.: Scott Environmental Services, Inc., Longview, Texas
Project Location: not given
Job No.: C 6109-141

Sample Information

Location / Boring No: FC 2853-UT (A)
Sample No.: 12598 Depth (ft.): ft.
Material Origin: On Site
Sampling Info. provided By: Client
Material Description: Gray & Brown POBC-A
Sampled By: Client Date Sampled: 8/22/2014
Technician: H. Walka Test Date: 10/14/2014

Sample Data

Initial Sample Data

Wet Wt: of Sample :	627.60	g
Diameter :	2.781	in
Length :	2.799	in
Area:	6.073	in^2
Volume :	16.998	in^3
Unit Wt.(wet):	**140.6**	pcf
Unit Wt.(dry):	**132.5**	pcf
Assumed Specific Gravity:	2.50	
Calculated % saturation:	85.7	
Void ratio (e) =	0.18	
Porosity (n)=	0.15	
Measured B-Value:	99.0	%

Moisture Content Data

	Before Test	After Test
Tare Wt:	127.80	129.60
Wet Wt.+tare:	521.50	773.70
Dry Wt.+tare:	498.90	732.70
Dry Wt. Soil:	371.10	603.10
Water Wt.:	22.60	41.00
% moist.:	**6.1**	**6.8**

Molding Properties

Molding/Preparation Method: D 1557
Max Dry Density(pcf) = 132.5 OMC = 6.0
% of Max Density = 100.0 +/- OMC = 0.1
LL: PI: -200%:

Test Readings

Z_1(Mercury Height Difference @ t_1): 5.2 cm Hydraulic Gradient = 9.16

Reading Date	elapsed t (seconds)	Z (pipet @ t)	ΔZp (cm)	temp (deg C)	α (temp corr)	k (cm/sec)	k (ft./day)
10/21/2014	1227	5.7	0.962	25.0	0.889	6.79E-08	1.93E-04
10/21/2014	1438	5.6	1.062	25.0	0.889	6.48E-08	1.84E-04
10/21/2014	1661	5.5	1.162	25.0	0.889	6.21E-08	1.76E-04
10/21/2014	1895	5.4	1.262	25.0	0.889	5.99E-08	1.70E-04

Summary Table

Hydraulic conductivity	**k =**	**6.37E-08**	**cm/sec**	**1.80E-04**	**ft/day**
Void Ratio	e =	0.18			
Porosity	n =	0.15			
Bulk Density	γ =	2.25	g/cm^3	140.6	pcf
Water Content	W =	0.13	cm^3/cm^3	(at 20 deg	
Intrinsic Permeability	k_{int} =	6.52E-13	cm	(at 20 deg	

Respectfully Submitted,

Hermann Walka, P.E.

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Mill Rd. Ste 613 Arlington, TX 76011 (817) 962-0048

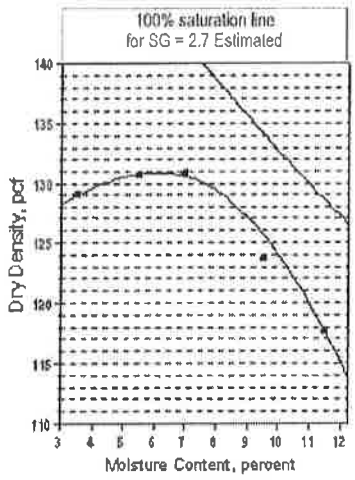
Ranch 15(14)-10-3-3-2W-UW(MW)

FC2853-UT

Acct ID: SCOTTENV Proj. No.: C6109-141 Date Sampled: 09/10/2014
Report Date: 11/11/2014 Sampled By: Client
Project: Scott Environmental General File 2014, Longview,TX By Order Of: Blake Scott
Location: Materail origin: Onsite, Sample location: FC2853-UT (B) Order Number:
Client: Scott Environmental Services, Longview, TX
Contractor: Not Given

REPORT: **Modified Proctor** LAB NO: S-12599
Material: POBC-B Test Method: See Below

Client PO: 8 **TEST RESULTS** Report No: 1-1700-000124
Page 1 of 5



% Moisture		Dry Density Lbs./Cu.Ft.	
3.5		129.0	
5.4		130.7	
7.1		130.9	
9.6		123.7	
11.4		118.2	
6.0	**Optimum**	**131.0**	**Maximum**

Color: Gray & Brown
Description: POBC-B

Standard Method:A
Desc of Rammer:Mechanical
Preparation Method:Moist
Remarks: These tests were performed solely at the request of the Client for his own use. No warranties are expressed or implied regarding the suitability of the site for construction or whether or not the reported data represents all conditions of the site.
Test Method (As Applicable):ASTM D1557, Method-A

Charge: Scott Environmental Services, Longview, TX Attn: Blake Scott
Orig: Scott Environmental Services, Longview, TX Attn: Blake Scott

Respectfully Submitted,
ETTL Engineers & Consultants, Inc.

Hermann Walka, P.E.

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REPORT CREATED BY ElmTree SYSTEM

ETTL Engineers & Consultants Inc.

GEOTECHNICAL * MATERIALS * ENVIRONMENTAL * DRILLING * LANDFILLS

Compressive Strength of Molded Soil-Cement Cylinders, ASTM D 1633 Method A

Unconfined Compressive Strength of Compacted Soil-Lime Mixtures, ASTM D 5102 Procedure B

Project Information

Project: SESI Job # FC 2853-UT (B)
Client/Arch./Engr.: Scott Enviromental Services Inc: Longview, Texas
Contractor: Not Given
Job No.: C 6109-141

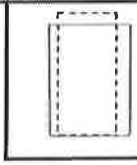
Sample Information

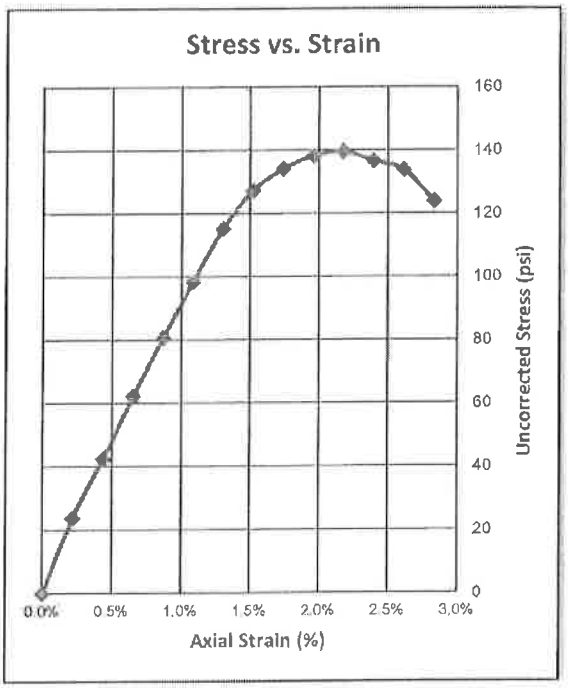
Location/Boring No: **SESI Job # FC 2853-UT (B)** Sample Date: 8/22/2014
Sample No.: **12599** Depth: _____ ft.
Material Origin: On Site
Sampling Info. provided By: Client
Material Description: Gray & Brown POBC-B
Sampled By: SESI
Technician: Todd Sliger Test Date: 9/23/2014

Test Data

Curing Method:
Sample moist cured at temperature of ~73 deg F for 7 days prior to conducting test.

Molding Method:	**ASTM D 1557**	
Optimum Moisture Content:	6.0%	
Maximum Density:	131	pcf
Molded Moisture Content:	7.1%	
Molded Density:	130.9	pcf
Diameter Before Curing:	3.994	in
Height Before Curing:	4.591	in
H/D Ratio Before Curing:	1.149	
Diameter After Curing:	4.024	in
Height After Curing:	4.592	in
H/D Ratio After Curing:	1.141	
Area After Curing:	12.72	in^2
H/D Correction Factor:	0.904	
Seating Load:	15.0	lbs.
Compression Load:	1814	lbs.
Total Load:	1829	lbs.
Confining Pressure:	0.0	psi
Maximum Stress:	143.8	psi
Corrected Maximum Stress:	**126.1**	psi
Peak Strain:	**2.2%**	
Failure Type:	Cylindrical	





Respectfully Submitted,

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GEOTECHNICAL * MATERIALS * ENVIRONMENTAL * DRILLING * LANDFILLS

Hydraulic Conductivity Determination Flexible Wall Permeameter (Mercury Permometer Test) ASTM D 5084, Method E

Project Information

Project: SESI Job # FC 2853-UT (B) Scott Environmental Services, Longview
Client/Arch./Engr.: Scott Environmental Services, Inc., Longview, Texas
Project Location: not given
Job No.: C 6109-141

Sample Information

Location / Boring No: FC 2853-UT (B)
Sample No.: 12599 Depth (ft.): ft.
Material Origin: On Site
Sampling Info. provided By: Client
Material Description: Gray & Brown POBC-B
Sampled By: Client Date Sampled: 8/22/2014
Technician: H. Walka Test Date: 10/21/2014

Sample Data

Initial Sample Data

Wet Wt: of Sample :	634.40	g
Diameter :	2.793	in
Length :	2.837	in
Area:	6.128	in^2
Volume :	17.388	in^3
Unit Wt.(wet):	**138.9**	pcf
Unit Wt.(dry):	**130.7**	pcf
Assumed Specific Gravity:	2.50	
Calculated % saturation:	80.9	
Void ratio (e) =	0.19	
Porosity (n)=	0.16	
Measured B-Value:	99.0	%

Moisture Content Data

Before Test		After Test	
Tare Wt:	132.30	Tare Wt:	121.70
Wet Wt.+tare:	521.90	Wet Wt.+tare:	763.20
Dry Wt.+tare:	498.90	Dry Wt.+tare:	717.10
Dry Wt. Soil:	366.60	Dry Wt. Soil:	595.40
Water Wt.:	23.00	Water Wt.:	46.10
% moist.:	**6.3**	% moist.:	**7.7**

Molding Properties

Molding/Preparation Method:	D 1557		
Max Dry Density(pcf) =	131.0	OMC =	6.0
% of Max Density =	99.8	+/- OMC =	0.3
LL:		PI:	-200%:

Test Readings

Z_1(Mercury Height Difference @ t_1): 5.2 cm Hydraulic Gradient = 9.03

Reading Date	elapsed t (seconds)	Z (pipet @ t)	ΔZp (cm)	temp (deg C)	α (temp corr)	k (cm/sec)	k (ft./day)
10/21/2014	1063	6.1	0.562	25.0	0.889	4.39E-08	1.25E-04
10/21/2014	1255	6.0	0.662	25.0	0.889	4.43E-08	1.26E-04
10/21/2014	1518	5.9	0.762	25.0	0.889	4.27E-08	1.21E-04
10/21/2014	1832	5.8	0.862	25.0	0.889	4.05E-08	1.15E-04

Summary Table

Hydraulic conductivity	**k =**	**4.28E-08**	**cm/sec**	**1.21E-04**	**ft/day**
Void Ratio	e =	0.19			
Porosity	n =	0.16			
Bulk Density	γ =	2.23	g/cm^3	138.9	pcf
Water Content	W =	0.13	cm^3/cm^3	(at 20 deg	
Intrinsic Permeability	k_{int} =	4.39E-13	cm^2	(at 20 deg	

Respectfully Submitted,

H. Walka

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FC2853-UT

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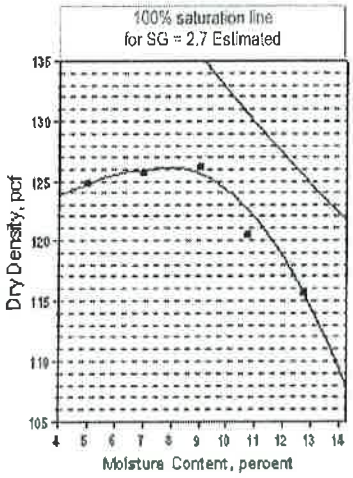
2000 E Randol Mill Rd. Ste 613 Arlington, TX 76011 (817) 962-0048

Acct ID: SCOTTENV Proj. No.: C6109-141 Date Sampled: 09/10/2014
Report Date: 11/11/2014 Sampled By: Client
Project: Scott Environmental General File 2014, Longview,TX By Order Of: Blake Scott
Location: Material origin: Onsite, Sample location: FC2853-UT (C) Order Number:
Client: Scott Environmental Services, Longview, TX
Contractor: Not Given

REPORT: **Modified Proctor** LAB NO: S-12600
Material: POBC-C Test Method: See Below

Client PO: 8 **TEST RESULTS** Report No: 1-1700-000125
Page 1 of 5



% Moisture		Dry Density Lbs./Cu.Ft.	
12.8		115.4	
4.9		124.7	
6.9		125.7	
9.1		126.1	
10.8		120.5	
8.0	**Optimum**	**126.0**	**Maximum**

Color: Gray & Brown
Description: POBC-C

Standard Method:A
Desc of Rammer:Mechanical
Preparation Method:Moist
Remarks: These tests were performed solely at the request of the Client for his own use. No warranties are expressed or implied regarding the suitability of the site for construction or whether or not the reported data represents all conditions of the site.
Test Method (As Applicable):ASTM D1557, Method-A

Charge: Scott Environmental Services, Longview, TX Attn: Blake Scott
Orig: Scott Environmental Services, Longview, TX Attn: Blake Scott

Respectfully Submitted,
ETTL Engineers & Consultants, Inc.

Hermann Walka, P.E.

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GEOTECHNICAL * MATERIALS * ENVIRONMENTAL * DRILLING * LANDFILLS

Compressive Strength of Molded Soil-Cement Cylinders, ASTM D 1633 Method A

Unconfined Compressive Strength of Compacted Soil-Lime Mixtures, ASTM D 5102 Procedure B

Project Information

Project: SESI Job # FC 2853-UT (C)
Client/Arch./Engr.: Scott Enviromental Services Inc: Longview, Texas
Contractor: Not Given
Job No.: C 6109-141

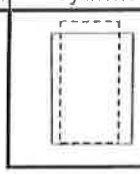
Sample Information

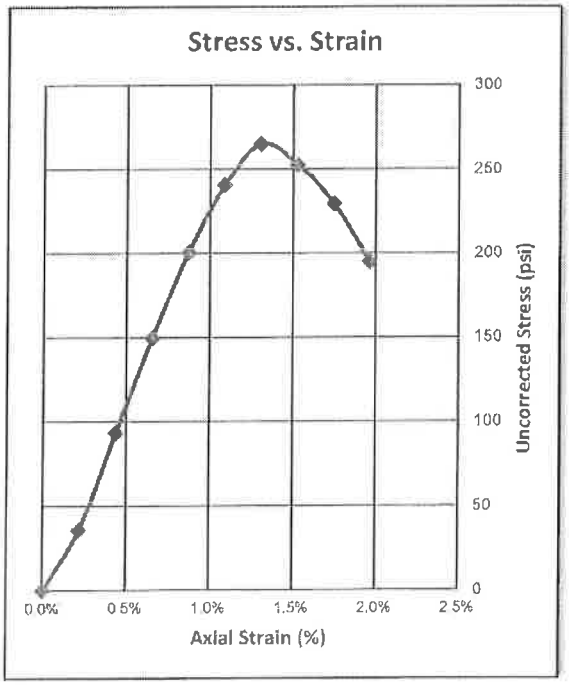
Location/Boring No: **SESI Job # FC 2853-UT (C)** Sample Date: 8/22/2014
Sample No.: **12600** **Depth:** ft.
Material Origin: On Site
Sampling Info. provided By: Client
Material Description: Gray & Brown POBC-C
Sampled By: SESI
Technician: Todd Sliger Test Date: 9/24/2014

Test Data

Curing Method:
Sample moist cured at temperature of ~73 deg F for 7 days prior to conducting test.

Molding Method:	**ASTM D 1557**	
Optimum Moisture Content:	8.0%	
Maximum Density:	126	pcf
Molded Moisture Content:	9.1%	
Molded Density:	126.1	pcf
Diameter Before Curing:	3.994	in
Height Before Curing:	4.591	in
H/D Ratio Before Curing:	1.149	
Diameter After Curing:	4.013	in
Height After Curing:	4.589	in
H/D Ratio After Curing:	1.144	
Area After Curing:	12.65	in^2
H/D Correction Factor:	0.904	
Seating Load:	15.0	lbs.
Compression Load:	3396	lbs.
Total Load:	3411	lbs.
Confining Pressure:	0.0	psi
Maximum Stress:	269.7	psi
Corrected Maximum Stress:	**239.6**	psi
Peak Strain:	**1.3%**	
Failure Type:	Cylindrical	





Respectfully Submitted,

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GEOTECHNICAL * MATERIALS * ENVIRONMENTAL * DRILLING * LANDFILLS

Hydraulic Conductivity Determination Flexible Wall Permeameter (Mercury Permometer Test) ASTM D 5084, Method E

Project Information

Project: SESI Job # FC 2853-UT (C) Scott Environmental Services, Longview
Client/Arch./Engr.: Scott Environmental Services, Inc., Longview, Texas
Project Location: not given
Job No.: C 6109-141

Sample Information

Location / Boring No: **FC 2853-UT (C)**
Sample No.: **12600** Depth (ft.): ____ **ft.**
Material Origin: On Site
Sampling Info. provided By: Client
Material Description: Gray & Brown POBC-C
Sampled By: Client Date Sampled: 8/22/2014
Technician: H. Walka Test Date: 10/21/2014

Sample Data

Initial Sample Data

Wet Wt: of Sample :	598.80	g
Diameter :	2.771	in
Length :	2.766	in
Area:	6.029	in^2
Volume :	16.677	in^3
Unit Wt.(wet):	**136.7**	pcf
Unit Wt.(dry):	**126.2**	pcf
Assumed Specific Gravity:	2.50	
Calculated % saturation:	88.1	
Void ratio (e) =	0.24	
Porosity (n)=	0.19	
Measured B-Value:	99.0	%

Moisture Content Data

Before Test		After Test	
Tare Wt:	117.50	Tare Wt:	133.50
Wet Wt.+tare:	545.80	Wet Wt.+tare:	752.70
Dry Wt.+tare:	512.80	Dry Wt.+tare:	704.60
Dry Wt. Soil:	395.30	Dry Wt. Soil:	571.10
Water Wt.:	33.00	Water Wt.:	48.10
% moist.:	**8.3**	% moist.:	**8.4**

Molding Properties

Molding/Preparation Method: D 1557
Max Dry Density(pcf) = 126.0 OMC = 8.0
% of Max Density = 100.2 +/- OMC = 0.3
LL: ____ PI: ____ -200%: ____

Test Readings

Z_1(Mercury Height Difference @ t_1): 5.1 cm Hydraulic Gradient = 9.07

Reading Date	elapsed t (seconds)	Z (pipet @ t)	ΔZp (cm)	temp (deg C)	α (temp corr)	k (cm/sec)	k (ft./day)
10/21/2014	1447	5.7	0.959	25.0	0.889	5.85E-08	1.66E-04
10/21/2014	1641	5.6	1.059	25.0	0.889	5.76E-08	1.63E-04
10/21/2014	1840	5.5	1.159	25.0	0.889	5.70E-08	1.62E-04
10/21/2014	2052	5.4	1.259	25.0	0.889	5.62E-08	1.59E-04

Summary Table

Hydraulic conductivity	**k =**	**5.73E-08**	**cm/sec**	**1.62E-04**	**ft/day**
Void Ratio	e =	0.24			
Porosity	n =	0.19			
Bulk Density	γ =	2.19	g/cm^3	136.7	pcf
Water Content	W =	0.17	cm^3/cm^3	(at 20 deg	
Intrinsic Permeability	k_{int} =	5.87E-13	cm^2	(at 20 deg	

Respectfully Submitted,

H. Walka

Hermann Walka, P.E.

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Ranch 16-10-3-3-2WH/
Aubrey 1A-15-22-3-2WH
S2798-UT

GCO Labs, LLC
3505 West Loop 281
Longview, Texas 75604
903 / 291-0137
www.gco-labs.com

Customer: J. Blake Scott
Scott Environmental Services, Inc.
P.O. Box 6215
Longview, Texas 75608
USA

Project: **S2798-UT**
Cust. Sample: **OBC-A**
Lab ID: 140807J001

Collected; 8/2/2014
Received: 8/7/2014
Report Date: 8/22/2014

Analysis	Results	Units	Method	Date	Time	Tech
Dry Sample (pH,EC and CEC)	Completed	Result	LA 29B	8/7/2014	9:37	fgo
EC at Saturation	47.8	mmhos/cm	LA 29B	8/13/2014	15:50	fgo
Electrical Conductance at 25 C	14.1	mmhos/cm	LA 29B	8/13/2014	15:50	fgo
Hydrophobicity	Positive	Result	LA 29B	8/18/2014	11:29	fgo
pH 1:1 aque(LA29B) @25C	9.5	SU	LA 29B	8/14/2014	9:55	fgo
Sample Prep La - 29B	Completed	mL/g	LA 29B	8/11/2014	8:00	fgo
Saturation Water Percentage (dried s	30	%	LA 29B	8/13/2014	16:10	fgo
Sodium Adsorption Ratio	3.2	meq/meq	LA 29B	8/18/2014	11:14	fgo
Soluble Cation Extraction	80/80	mL/g	LA 29B	8/12/2014	16:40	fgo
Special Total Ba Metals Prep	500/0.1021	mL/g	LA 29B	8/13/2014	14:00	fgo
Extraction (3-Day SESI)	50/5.06	mL/g	LA29B*Modified	8/7/2014	10:05	fgo
Chloride (LA29 3D EXIC)	2,450	mg/kg	LA29B-Mod SESI	8/12/2014	10:20	fgo
Free Alkalinity (Phenyl	2,500	mg/kg	SM 2320B	8/14/2014	11:58	fgo
Total Solids for Dry Wt	90.6	%	SM 2540 G	8/7/2014	15:45	fgo
Solid/Organic Metals Digestion	100/1.35	mL/g	SW-846 3050B	8/10/2014	13:50	fgo
Arsenic	12.2	mg/kg	SW-846 6010B	8/14/2014	10:05	fgo
Cadmium	< 2.50	mg/kg	SW-846 6010B	8/14/2014	10:05	fgo
Calcium (Water Soluble)	163	meq/L	SW-846 6010B	8/14/2014	10:05	fgo
Chromium	28.6	mg/kg	SW-846 6010B	8/14/2014	10:05	fgo
Lead	13.9	mg/kg	SW-846 6010B	8/14/2014	10:05	fgo
Magnesium (Water Soluble)	6.82	meq/L	SW-846 6010B	8/14/2014	10:05	fgo
Selenium	< 2.50	mg/kg	SW-846 6010B	8/14/2014	10:05	fgo
Silver	< 2.50	mg/kg	SW-846 6010B	8/14/2014	10:05	fgo
Sodium (Water Soluble)	29.1	meq/L	SW-846 6010B	8/14/2014	10:05	fgo
True Total Barium	163,000	mg/kg	SW-846 6010B	8/14/2014	10:24	fgo
Zinc	31.6	mg/kg	SW-846 6010B	8/14/2014	10:05	fgo
Mercury	0.0366	mg/kg	SW-846 7471A	8/18/2014	16:00	fgo
Solid Metal Digestion Hg	100/1.4	mL/g	SW-846 7471A	8/11/2014	13:30	fgo
Benzene	< 0.250	mg/kg	SW-846 8260B	8/21/2014	12:37	fgo
VOC 5035 Extraction	10/10.1	mL/g	SW-846 8260B	8/12/2014	8:50	fgo
Sulfate	2,070	mg/kg	Tex-620-J	8/12/2014	15:21	fgo
Sulfate Extraction/Leaching	50/5.26	mL/g	Tex-620-J	8/11/2014	16:00	fgo
1005 TPH Extraction Solid	10/10.0	mL/g	TNRCC TX 1005	8/11/2014	16:00	fgo
C12 to C28 TPH	107,000	mg/kg	TNRCC TX 1005	8/11/2014	19:36	fgo
C28 to C36 TPH	6,670	mg/kg	TNRCC TX 1005	8/11/2014	19:38	fgo
C6 to C12 TPH	11,700	mg/kg	TNRCC TX 1005	8/11/2014	19:38	fgo
C6 to C36 TPH	126,000	mg/kg	TNRCC TX 1005	8/11/2014	19:38	fgo

GCO Labs, LLC
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Longview, Texas 75604
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www.gco-labs.com

Quality Control Data

Analyte	QC Parameter		Result	Units	Reference Value	Units
Chloride	Blank	Method Blank	< 1.0	ppm		
	CCV1	Recovery	109	%	True Value	20 ppm
	CCV2	Recovery	94.8	%	True Value	10 ppm
	CCV3	Recovery	92.7	%	True Value	10 ppm
	Dup-A	A Reading	2,450	ppm		
	Dup-B	B Reading	2,520	ppm		
	Dup-RPD1	Relative% Difference	2.65	%		
	LCS	Recovery	87.9	%	Spike Amount	8 ppm
	LCSD	Recovery	88.1	%	Spike Amount	8 ppm
	LCS-RPD	Relative% Difference	0.284	%		
	MS	Recovery	92.9	%	Spike Amount	8 ppm
C6-C12 TPH	Blank	Method Blank	< 50	ppm		
	CCV1	Recovery	95.6	%	True Value	1000 ppm
	CCV2	Recovery	107	%	True Value	1000 ppm
	Dup-A	A Reading	11,700	ppm		
	Dup-B	B Reading	12,400	ppm		
	Dup-RPD1	Relative% Difference	5.63	%		
	LCS	Recovery	93.7	%	Spike Amount	500 ppm
	LCSD	Recovery	99.4	%	Spike Amount	500 ppm
	LCS-RPD	Relative% Difference	5.98	%		
C12-C28 TPH	Blank	Method Blank	< 50	ppm		
	CCV1	Recovery	97.6	%	True Value	1000 ppm
	CCV2	Recovery	113	%	True Value	1000 ppm
	Dup-A	A Reading	107,000	ppm		
	Dup-B	B Reading	111,000	ppm		
	Dup-RPD1	Relative% Difference	3	%		
	LCS	Recovery	90.9	%	Spike Amount	500 ppm
	LCSD	Recovery	87.3	%	Spike Amount	500 ppm
	LCS-RPD	Relative% Difference	4.03	%		
Benzene	Blank	Method Blank	< 0.0010	ppm		
	CCV1	Recovery	101	%	True Value	0.02 ppm
	LCS	Recovery	95.7	%	Spike Amount	0.02 ppm
	LCSD	Recovery	91.8	%	Spike Amount	0.02 ppm
	LCS-RPD	Relative% Difference	4.16	%		
Alkalinity	Dup-A	A Reading	2,500	ppm		
	Dup-B	B Reading	3,490	ppm		
	Dup-RPD1	Relative% Difference	33.1	%		
	LCS	Recovery	101	%	Spike Amount	50000 ppm

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Analyte	QC Parameter		Result	Units	Reference Value	Units
	LCSD	Recovery	101	%	Spike Amount	50000 ppm
	LCS-RPD	Relative% Difference	< 1.00	%		
Electrical Conductivity	Dup-A(EC)	Reading	14.13	mmhos/cm		
	Dup-B(EC)	Reading	13.98	mmhos/cm		
	Dup-RPD1	Relative% Difference	1.07	%		
	Standard1(EC)	Reading	1.455	mmhos/cm	True Value	1.412 mmhos
	Standard1(EC)	Reading	13.31	mmhos/cm	True Value	12.9 mmhos
	Standard2(EC)	Reading	1.44	mmhos/cm	True Value	1.412 mmhos
	Standard2(EC)	Reading	13.02	mmhos/cm	True Value	12.9 mmhos
SWP	Blank%	Method Blank	< 0.10	%		
	Dup-A%	A Reading	29.6	%		
	Dup-B%	B Reading	28.6	%		
	Dup-RPD1	Relative% Difference	3.45	%		
pH at 25 C	Dup-A(pH)	Reading	9.48	SU		
	Dup-B(pH)	Reading	9.5	SU		
	Dup-RPD1	Relative% Difference	0.211	%		
	pH 10 Buffer(1st)	Reading	10.02	SU	True Value	10 SU
	pH 10 Buffer(2nd)	Reading	9.99	SU	True Value	10 SU
	pH 7 Buffer(2nd)	Reading	6.96	SU	True Value	7 SU
Sulfate	Blank	Method Blank	< 0.10	ppm		
	CCV1	Recovery	107	%	True Value	40 ppm
	CCV2	Recovery	96.2	%	True Value	20 ppm
	CCV3	Recovery	96.5	%	True Value	20 ppm
	Dup-A	A Reading	2,070	ppm		
	Dup-B	B Reading	1,920	ppm		
	Dup-RPD1	Relative% Difference	7.34	%		
	LCS	Recovery	87	%	Spike Amount	8 ppm
	LCSD	Recovery	86.6	%	Spike Amount	8 ppm
	LCS-RPD	Relative% Difference	0.432	%		
	MS	Recovery	90.3	%	Spike Amount	8 ppm
Barium, True Total	Blank	Method Blank	< 0.25	ppm		
	CCV2	Recovery	101	%	True Value	10 ppm
	CCV3	Recovery	101	%	True Value	10 ppm
	Dup-A	A Reading	163,000	ppm		
	Dup-B	B Reading	163,000	ppm		
	Dup-RPD1	Relative% Difference	0.342	%		
	ICV	Recovery	95.7	%	True Value	5 ppm
Mercury	Blank	Method Blank	< 0.0020	ppm		
	CCV1	Recovery	103	%	True Value	0.005 ppm
	CCV2	Recovery	104	%	True Value	0.005 ppm
	LCS	Recovery	93.2	%	Spike Amount	0.005 ppm
	LCSD	Recovery	105	%	Spike Amount	0.005 ppm
	LCS-RPD	Relative% Difference	11.5	%		
	MS	Recovery	94.2	%	Spike Amount	0.005 ppm
	MSD	Recovery	105	%	Spike Amount	0.005 ppm
	MS-RPD	Relative% Difference	10.6	%		
Arsenic	Blank	Method Blank	< 2.5	ppm		
	CCV3	Recovery	100	%	True Value	10 ppm
	CCV4	Recovery	98.7	%	True Value	10 ppm

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Analyte	QC Parameter		Result	Units	Reference Value	Units
	ICV	Recovery	99.6	%	True Value	5 ppm
	LCS	Recovery	94.7	%	Spike Amount	0.5 ppm
	LCSD	Recovery	96.4	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	1.86	%		
	MS	Recovery	92.3	%	Spike Amount	0.5 ppm
	MSD	Recovery	95.4	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	3.34	%		
Ca, water soluble	Blank	Method Blank	< 1.0	ppm		
	CCV1	Recovery	98.5	%	True Value	100 ppm
	CCV2	Recovery	100	%	True Value	100 ppm
	Dup-A	A Reading	3,270	ppm		
	Dup-B	B Reading	3,280	ppm		
	Dup-RPD1	Relative% Difference	0.213	%		
	ICV	Recovery	95	%	True Value	50 ppm
Cadmium	Blank	Method Blank	< 2.5	ppm		
	CCV3	Recovery	101	%	True Value	5 ppm
	CCV4	Recovery	99	%	True Value	5 ppm
	ICV	Recovery	98.1	%	True Value	2.5 ppm
	LCS	Recovery	93.9	%	Spike Amount	0.25 ppm
	LCSD	Recovery	94.8	%	Spike Amount	0.25 ppm
	LCS-RPD	Relative% Difference	1.02	%		
	MS	Recovery	90.5	%	Spike Amount	0.25 ppm
	MSD	Recovery	89.8	%	Spike Amount	0.25 ppm
	MS-RPD	Relative% Difference	0.81	%		
Chromium	Blank	Method Blank	< 2.5	ppm		
	CCV3	Recovery	100	%	True Value	10 ppm
	CCV4	Recovery	98	%	True Value	10 ppm
	ICV	Recovery	98.8	%	True Value	5 ppm
	LCS	Recovery	95.7	%	Spike Amount	0.5 ppm
	LCSD	Recovery	96.7	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	1.03	%		
	MS	Recovery	80.7	%	Spike Amount	0.5 ppm
	MSD	Recovery	83.8	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	3.74	%		
Lead	Blank	Method Blank	< 2.5	ppm		
	CCV3	Recovery	101	%	True Value	10 ppm
	CCV4	Recovery	99.1	%	True Value	10 ppm
	ICV	Recovery	97.7	%	True Value	5 ppm
	LCS	Recovery	94.3	%	Spike Amount	0.5 ppm
	LCSD	Recovery	95.8	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	1.59	%		
	MS	Recovery	79.9	%	Spike Amount	0.5 ppm
	MSD	Recovery	86.8	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	8.27	%		
Mg, water soluble	Blank	Method Blank	< 1.0	ppm		
	CCV1	Recovery	98.9	%	True Value	100 ppm
	CCV2	Recovery	100	%	True Value	100 ppm
	Dup-A	A Reading	82.9	ppm		
	Dup-B	B Reading	82.1	ppm		

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Analyte	QC Parameter		Result	Units	Reference Value	Units
	Dup-RPD1	Relative% Difference	0.944	%		
	ICV	Recovery	101	%	True Value	50 ppm
Na, water soluble	Blank	Method Blank	< 1.0	ppm		
	CCV1	Recovery	99.1	%	True Value	100 ppm
	CCV2	Recovery	101	%	True Value	100 ppm
	Dup-A	A Reading	670	ppm		
	Dup-B	B Reading	663	ppm		
	Dup-RPD1	Relative% Difference	1.1	%		
	ICV	Recovery	99.6	%	True Value	50 ppm
Selenium	Blank	Method Blank	< 2.5	ppm		
	CCV3	Recovery	100	%	True Value	10 ppm
	CCV4	Recovery	98.8	%	True Value	10 ppm
	ICV	Recovery	99.8	%	True Value	5 ppm
	LCS	Recovery	94	%	Spike Amount	0.5 ppm
	LCSD	Recovery	94.5	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	0.453	%		
	MS	Recovery	96.8	%	Spike Amount	0.5 ppm
	MSD	Recovery	96.8	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	0.0458	%		
Silver	Blank	Method Blank	< 2.5	ppm		
	CCV3	Recovery	101	%	True Value	2 ppm
	CCV4	Recovery	99.3	%	True Value	2 ppm
	ICV	Recovery	102	%	True Value	1 ppm
	LCS	Recovery	92.7	%	Spike Amount	0.1 ppm
	LCSD	Recovery	88.8	%	Spike Amount	0.1 ppm
	LCS-RPD	Relative% Difference	4.33	%		
	MS	Recovery	93.1	%	Spike Amount	0.1 ppm
	MSD	Recovery	91.7	%	Spike Amount	0.1 ppm
	MS-RPD	Relative% Difference	1.6	%		
Zinc	Blank	Method Blank	< 2.5	ppm		
	CCV3	Recovery	101	%	True Value	10 ppm
	CCV4	Recovery	98.8	%	True Value	10 ppm
	ICV	Recovery	97.3	%	True Value	5 ppm
	LCS	Recovery	93.2	%	Spike Amount	0.5 ppm
	LCSD	Recovery	93.9	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	0.833	%		
	MS	Recovery	88.3	%	Spike Amount	0.5 ppm
	MSD	Recovery	101	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	13.1	%		
Total Solids	Blank%	Method Blank	< 0.10	%		
	Dup-A%	A Reading	90.6	%		
	Dup-B%	B Reading	90.8	%		
	Dup-RPD1	Relative% Difference	0.241	%		

Approved by

Greg Oliver, Lab Manager

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Chain of Custody

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Report to: J. B. Scott
Company: Scott Environmental Services
Address: P.O. Box 6215
City: Longview State: Texas Zip: 75608
Sampler Signature: Printed Name:

Project name/Location: S2798- UT
Billing Address (if different):
City: State: Zip:
PO Number:

Lab Use Only	Field Identification	Date	Time	Matrix	#Bottles	Notes	Analysis Request
	OBC-A	8/7/14	—	Solid	4	140807J001	✓ Routine Salinity #1
							✓ Benzene
							✓ TCEQ 1005
							✓ LA29b Metals

Date: Time: Relinquished by: Received by:

Printed:	Signature:	Affiliation:	Printed Name	Signature:	Affiliation:
8/7/14 9:30	Jeff Tyson	Scott	Linda Cross	Linda Cross	GCOLabs

Laboratory Approved by the Texas Railroad Commission

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Jorgensen 2-4-9-3-2WH
S2763-UT

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Customer:

J. Blake Scott
Scott Environmental Services, Inc.
P.O. Box 6215
Longview, Texas 75608
USA

Project: **S2763-UT**
Cust. Sample: **OBC-A**
Lab ID: 140416Q003

Collected; 4/11/2014
Received: 4/16/2014
Report Date: 4/22/2014

Analysis	Results	Units	Method	Date	Time	Tech
Dry Sample (pH,EC and CEC)	Completed	Result	LA 29B	4/16/2014	16:51	fgo
EC at Saturation	43.8	mho/cm	LA 29B	4/19/2014	14:15	fgo
Electrical Conductance at 25 C	13.7	mho/cm	LA 29B	4/19/2014	14:15	fgo
Hydrophobicity	Positive	Result	LA 29B	4/21/2014	9:46	fgo
pH 1:1 aque(LA29B) @25C	11.4	SU	LA 29B	4/17/2014	15:30	fgo
Sample Prep La - 29B	Completed	mL/g	LA 29B	4/21/2014	9:48	fgo
Saturation Water Percentage (dried s	31	%	LA 29B	4/19/2014	17:30	fgo
Sodium Adsorption Ratio	0.93	meq/meq	LA 29B	4/19/2014	14:51	fgo
Soluble Cation Extraction	80/80	mL/g	LA 29B	4/17/2014	17:10	fgo
Special Total Ba Metals Prep	500/0.1041	mL/g	LA 29B	4/17/2014	15:40	fgo
Extraction (3-Day SESI)	50/5.52	mL/g	LA29B*Modified	4/16/2014	17:20	fgo
Chloride (LA29 3D EXIC)	4,950	mg/kg	LA29B-Mod SESI	4/20/2014	0:17	fgo
Free Alkalinity (Phenyl	22,100	mg/kg	SM 2320B	4/17/2014	14:36	fgo
Total Solids for Dry Wt	88.1	%	SM 2540 G	4/19/2014	17:30	fgo
Solid/Organic Metals Digestion	100/1.35	mL/g	SW-846 3050B	4/17/2014	9:00	fgo
Arsenic	7.67	mg/kg	SW-846 6010B	4/19/2014	15:12	fgo
Cadmium	< 2.50	mg/kg	SW-846 6010B	4/19/2014	15:12	fgo
Calcium (Water Soluble)	134	meq/L	SW-846 6010B	4/19/2014	14:51	fgo
Chromium	19.9	mg/kg	SW-846 6010B	4/19/2014	15:12	fgo
Lead	9.21	mg/kg	SW-846 6010B	4/19/2014	15:12	fgo
Magnesium (Water Soluble)	< 1.00	meq/L	SW-846 6010B	4/19/2014	14:51	fgo
Selenium	< 2.50	mg/kg	SW-846 6010B	4/19/2014	15:12	fgo
Silver	< 2.50	mg/kg	SW-846 6010B	4/19/2014	15:12	fgo
Sodium (Water Soluble)	7.62	meq/L	SW-846 6010B	4/19/2014	14:51	fgo
True Total Barium	229,000	mg/kg	SW-846 6010B	4/19/2014	14:59	fgo
Zinc	39.6	mg/kg	SW-846 6010B	4/19/2014	15:12	fgo
Mercury	0.0361	mg/kg	SW-846 7471A	4/19/2014	17:39	fgo
Solid Metal Digestion Hg	100/0.56	mL/g	SW-846 7471A	4/17/2014	8:50	fgo
Benzene	< 0.0558	mg/kg	SW-846 8260B	4/21/2014	13:45	fgo
VOC 5035 Extraction	10/10.2	mL/g	SW-846 8260B	4/17/2014	8:03	fgo
Sulfate	1,430	mg/kg	Tex-620-J	4/19/2014	22:16	fgo
Sulfate Extraction/Leaching	50/5.53	mL/g	Tex-620-J	4/17/2014	10:28	fgo
1005 TPH Extraction Solid	10/10.2	mL/g	TNRCC TX 1005	4/17/2014	7:59	fgo
C12 to C28 TPH	99,300	mg/kg	TNRCC TX 1005	4/17/2014	18:14	fgo
C28 to C36 TPH	3,790	mg/kg	TNRCC TX 1005	4/17/2014	18:14	fgo
C6 to C12 TPH	9,800	mg/kg	TNRCC TX 1005	4/17/2014	18:14	fgo
C6 to C36 TPH	113,000	mg/kg	TNRCC TX 1005	4/17/2014	18:14	fgo

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Quality Control Data

Analyte	QC Parameter		Result	Units	Reference Value	Units
Chloride	Blank	Method Blank	< 1.0	ppm		
	CCV1	Recovery	102	%	True Value	20 ppm
	CCV2	Recovery	95.9	%	True Value	10 ppm
	CCV3	Recovery	96.8	%	True Value	10 ppm
	Dup-A	A Reading	27,100	ppm		
	Dup-B	B Reading	27,200	ppm		
	Dup-RPD1	Relative% Difference	0.425	%		
	LCS	Recovery	91.3	%	Spike Amount	8 ppm
	LCSD	Recovery	91.1	%	Spike Amount	8 ppm
	LCS-RPD	Relative% Difference	0.137	%		
	MS	Recovery	102	%	Spike Amount	8 ppm
C6-C12 TPH	Blank	Method Blank	< 50	ppm		
	CCV1	Recovery	107	%	True Value	1000 ppm
	CCV2	Recovery	106	%	True Value	1000 ppm
	Dup-A	A Reading	26,000	ppm		
	Dup-B	B Reading	24,600	ppm		
	Dup-RPD1	Relative% Difference	5.58	%		
	LCS	Recovery	105	%	Spike Amount	500 ppm
	LCSD	Recovery	101	%	Spike Amount	500 ppm
	LCS-RPD	Relative% Difference	4.3	%		
C12-C28 TPH	Blank	Method Blank	< 50	ppm		
	CCV1	Recovery	119	%	True Value	1000 ppm
	CCV2	Recovery	122	%	True Value	1000 ppm
	Dup-A	A Reading	172,000	ppm		
	Dup-B	B Reading	163,000	ppm		
	Dup-RPD1	Relative% Difference	5.12	%		
	LCS	Recovery	103	%	Spike Amount	500 ppm
	LCSD	Recovery	99.3	%	Spike Amount	500 ppm
	LCS-RPD	Relative% Difference	3.77	%		
Benzene	Blank	Method Blank	< 0.0010	ppm		
	CCV1	Recovery	108	%	True Value	0.02 ppm
	LCS	Recovery	103	%	Spike Amount	0.02 ppm
	LCSD	Recovery	103	%	Spike Amount	0.02 ppm
	LCS-RPD	Relative% Difference	0.631	%		
	MS	Recovery	102	%	Spike Amount	0.02 ppm
	MSD	Recovery	107	%	Spike Amount	0.02 ppm
	MS-RPD	Relative% Difference	4.44	%		

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Analyte	QC Parameter		Result	Units	Reference Value	Units
Alkalinity	Dup-A	A Reading	56,200	ppm		
	Dup-B	B Reading	58,200	ppm		
	Dup-RPD1	Relative% Difference	3.62	%		
	LCS	Recovery	98.5	%	Spike Amount	50000 ppm
	LCSD	Recovery	96.5	%	Spike Amount	50000 ppm
	LCS-RPD	Relative% Difference	2.05	%		
Electrical Conductivity	Dup-A(EC)	Reading	72.5	mho/c		
	Dup-B(EC)	Reading	72.6	mho/c		
	Dup-RPD1	Relative% Difference	0.14	%		
	Standard1(EC)	Reading	12.99	mho/c	True Value	12.9 mho/c
	Standard1(EC)	Reading	1.436	mho/c	True Value	1.412 mho/c
	Standard2(EC)	Reading	12.94	mho/c	True Value	12.9 mho/c
	Standard2(EC)	Reading	1.432	mho/c	True Value	1.412 mho/c
SWP	Blank%	Method Blank	< 0.10	%		
	Dup-A%	A Reading	31.3	%		
	Dup-B%	B Reading	31	%		
	Dup-RPD1	Relative% Difference	1.1	%		
pH at 25 C	Dup-A(pH)	Reading	11.74	SU		
	Dup-B(pH)	Reading	11.75	SU		
	Dup-RPD1	Relative% Difference	0.0851	%		
	pH 10 Buffer(1st)	Reading	10.03	SU	True Value	10 SU
	pH 10 Buffer(2nd)	Reading	10.05	SU	True Value	10 SU
	pH 7 Buffer(1st)	Reading	7.01	SU	True Value	7 SU
Sulfate	Blank	Method Blank	< 0.10	ppm		
	CCV1	Recovery	109	%	True Value	40 ppm
	CCV2	Recovery	93.5	%	True Value	20 ppm
	CCV3	Recovery	91.2	%	True Value	20 ppm
	Dup-A	A Reading	1,000	ppm		
	Dup-B	B Reading	964	ppm		
	Dup-RPD1	Relative% Difference	4.16	%		
	LCS	Recovery	89.6	%	Spike Amount	8 ppm
	LCSD	Recovery	92.1	%	Spike Amount	8 ppm
	LCS-RPD	Relative% Difference	2.75	%		
	MS	Recovery	90.6	%	Spike Amount	8 ppm
Barium, True Total	Blank	Method Blank	< 0.25	ppm		
	CCV1	Recovery	100	%	True Value	10 ppm
	CCV2	Recovery	101	%	True Value	10 ppm
	Dup-A	A Reading	57,000	ppm		
	Dup-B	B Reading	57,600	ppm		
	Dup-RPD1	Relative% Difference	1.15	%		
	ICV	Recovery	104	%	True Value	5 ppm
Mercury	Blank	Method Blank	< 0.00020	ppm		
	CCV1	Recovery	97	%	True Value	0.005 ppm
	CCV2	Recovery	97	%	True Value	0.005 ppm
	LCS	Recovery	109	%	Spike Amount	0.005 ppm
	LCSD	Recovery	113	%	Spike Amount	0.005 ppm
	LCS-RPD	Relative% Difference	3.32	%		
	MS	Recovery	118	%	Spike Amount	0.005 ppm
	MSD	Recovery	118	%	Spike Amount	0.005 ppm

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Analyte	QC Parameter		Result	Units	Reference Value	Units
	MS-RPD	Relative% Difference	0.0581	%		
Arsenic	Blank	Method Blank	< 2.5	ppm		
	CCV2	Recovery	98.7	%	True Value	10 ppm
	CCV3	Recovery	98.3	%	True Value	10 ppm
	ICV	Recovery	103	%	True Value	5 ppm
	LCS	Recovery	93.4	%	Spike Amount	0.5 ppm
	LCSD	Recovery	90.8	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	2.84	%		
	MS	Recovery	87.6	%	Spike Amount	0.5 ppm
	MSD	Recovery	89.5	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	2.09	%		
Ca, water soluble	Blank	Method Blank	< 1.0	ppm		
	CCV1	Recovery	98.5	%	True Value	100 ppm
	CCV2	Recovery	98.1	%	True Value	100 ppm
	Dup-A	A Reading	3,800	ppm		
	Dup-B	B Reading	3,790	ppm		
	Dup-RPD1	Relative% Difference	0.326	%		
	ICV	Recovery	103	%	True Value	50 ppm
Cadmium	Blank	Method Blank	< 2.5	ppm		
	CCV2	Recovery	97.8	%	True Value	5 ppm
	CCV3	Recovery	96.5	%	True Value	5 ppm
	ICV	Recovery	102	%	True Value	2.5 ppm
	LCS	Recovery	91.7	%	Spike Amount	0.25 ppm
	LCSD	Recovery	88.8	%	Spike Amount	0.25 ppm
	LCS-RPD	Relative% Difference	3.21	%		
	MS	Recovery	81.9	%	Spike Amount	0.25 ppm
	MSD	Recovery	82.2	%	Spike Amount	0.25 ppm
	MS-RPD	Relative% Difference	0.299	%		
Chromium	Blank	Method Blank	< 2.5	ppm		
	CCV2	Recovery	98.9	%	True Value	10 ppm
	CCV3	Recovery	98.7	%	True Value	10 ppm
	ICV	Recovery	103	%	True Value	5 ppm
	LCS	Recovery	95.4	%	Spike Amount	0.5 ppm
	LCSD	Recovery	92.9	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	2.65	%		
	MS	Recovery	84.4	%	Spike Amount	0.5 ppm
	MSD	Recovery	80.7	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	4.5	%		
Lead	Blank	Method Blank	< 2.5	ppm		
	CCV2	Recovery	97.9	%	True Value	10 ppm
	CCV3	Recovery	97.2	%	True Value	10 ppm
	ICV	Recovery	102	%	True Value	5 ppm
	LCS	Recovery	92.8	%	Spike Amount	0.5 ppm
	LCSD	Recovery	90.4	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	2.54	%		
	MS	Recovery	86.5	%	Spike Amount	0.5 ppm
	MSD	Recovery	74.8	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	14.5	%		

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Analyte	QC Parameter		Result	Units	Reference Value	Units
Mg, water soluble	Blank	Method Blank	< 1.0	ppm		
	CCV1	Recovery	99.6	%	True Value	100 ppm
	CCV2	Recovery	98.6	%	True Value	100 ppm
	Dup-A	A Reading	0.499	ppm		
	Dup-B	B Reading	0.5	ppm		
	Dup-RPD1	Relative% Difference	0.104	%		
	ICV	Recovery	106	%	True Value	50 ppm
Na, water soluble	Blank	Method Blank	< 1.0	ppm		
	CCV1	Recovery	99.8	%	True Value	100 ppm
	CCV2	Recovery	99.4	%	True Value	100 ppm
	Dup-A	A Reading	2,070	ppm		
	Dup-B	B Reading	2,050	ppm		
	Dup-RPD1	Relative% Difference	1.01	%		
	ICV	Recovery	105	%	True Value	50 ppm
Selenium	Blank	Method Blank	< 2.5	ppm		
	CCV2	Recovery	98.8	%	True Value	10 ppm
	CCV3	Recovery	97.6	%	True Value	10 ppm
	ICV	Recovery	105	%	True Value	5 ppm
	LCS	Recovery	90.4	%	Spike Amount	0.5 ppm
	LCSD	Recovery	87.3	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	3.51	%		
	MS	Recovery	87.6	%	Spike Amount	0.5 ppm
	MSD	Recovery	83.2	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	5.26	%		
Silver	Blank	Method Blank	< 2.5	ppm		
	CCV2	Recovery	99.9	%	True Value	2 ppm
	CCV3	Recovery	99.9	%	True Value	2 ppm
	ICV	Recovery	96.4	%	True Value	1 ppm
	LCS	Recovery	95	%	Spike Amount	0.1 ppm
	LCSD	Recovery	91.6	%	Spike Amount	0.1 ppm
	LCS-RPD	Relative% Difference	3.64	%		
	MS	Recovery	92.8	%	Spike Amount	0.1 ppm
	MSD	Recovery	90.8	%	Spike Amount	0.1 ppm
	MS-RPD	Relative% Difference	2.18	%		
Zinc	Blank	Method Blank	< 2.5	ppm		
	CCV2	Recovery	96.9	%	True Value	10 ppm
	CCV3	Recovery	95.6	%	True Value	10 ppm
	ICV	Recovery	102	%	True Value	5 ppm
	LCS	Recovery	90.8	%	Spike Amount	0.5 ppm
	LCSD	Recovery	88.5	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	2.57	%		
	MS	Recovery	77.6	%	Spike Amount	0.5 ppm
	MSD	Recovery	71.9	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	7.65	%		
Total Solids	Blank%	Method Blank	< 0.10	%		
	Dup-A%	A Reading	85.6	%		
	Dup-B%	B Reading	85.3	%		
	Dup-RPD1	Relative% Difference	0.344	%		

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Approved by Greg Oliver

Greg Oliver, Lab Manager

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Chain of Custody

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(903)291-0137
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Report to: J. B. Scott
Company: Scott Environmental Services
Address: P.O. Box 6215
City: Longview State: Texas Zip: 75608
Sampler Signature: Printed Name:

Project name/Location: S2763-UT
Billing Address (if different):
City: State: Zip:
PO Number:

Analysis Request: Routine Salinity #1; Benzene; TCEQ 1005; LA 29 B Metals

Lab Use Only	Field Identification	Date	Time	Matrix	#Bottles	Notes	Routine Salinity #1	Benzene	TCEQ 1005	LA 29 B Metals
140416Q003	OBC-A	4/14/14	—	solid	3		✓	✓	✓	✓

Date	Time	Relinquished by: Printed	Signature	Affiliation	Received by: Printed Name	Signature	Affiliation
4/16/14	1630	Detric Washington	[signature]	SESI	Greg Oliver	[signature]	GCO Labs

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Perank 13-10-3-3-3WH
S2785-UT

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Customer:

J. Blake Scott
Scott Environmental Services, Inc.
P.O. Box 6215
Longview, Texas 75608
USA

Project: **S2785-UT**
Cust. Sample: **OBC-A**
Lab ID: 140416Q004

Collected; 4/10/2014
Received: 4/16/2014
Report Date: 4/22/2014

Analysis	Results	Units	Method	Date	Time	Tech
Dry Sample (pH,EC and CEC)	Completed	Result	LA 29B	4/16/2014	16:51	fgo
EC at Saturation	46.3	mho/cm	LA 29B	4/22/2014	9:33	fgo
Electrical Conductance at 25 C	13.3	mho/cm	LA 29B	4/22/2014	9:33	fgo
Hydrophobicity	Positive	Result	LA 29B	4/21/2014	9:46	fgo
pH 1:1 aque(LA29B) @25C	11.3	SU	LA 29B	4/21/2014	12:55	fgo
Sample Prep La - 29B	Completed	mL/g	LA 29B	4/21/2014	9:48	fgo
Saturation Water Percentage (dried s	29	%	LA 29B	4/21/2014	16:00	fgo
Sodium Adsorption Ratio	1.9	meq/meq	LA 29B	4/22/2014	11:31	fgo
Soluble Cation Extraction	80/80	mL/g	LA 29B	4/21/2014	12:23	fgo
Special Total Ba Metals Prep	500/0.1112	mL/g	LA 29B	4/21/2014	12:45	fgo
Extraction (3-Day SESI)	50/5.86	mL/g	LA29B*Modified	4/16/2014	17:20	fgo
Chloride (LA29 3D EXIC)	3,950	mg/kg	LA29B-Mod SESI	4/20/2014	0:29	fgo
Free Alkalinity (Phenyl	4,250	mg/kg	SM 2320B	4/21/2014	13:11	fgo
Total Solids for Dry Wt	91.9	%	SM 2540 G	4/19/2014	17:30	fgo
Solid/Organic Metals Digestion	100/1.40	mL/g	SW-846 3050B	4/17/2014	9:00	fgo
Arsenic	6.29	mg/kg	SW-846 6010B	4/19/2014	15:12	fgo
Cadmium	< 2.50	mg/kg	SW-846 6010B	4/19/2014	15:12	fgo
Calcium (Water Soluble)	146	meq/L	SW-846 6010B	4/22/2014	11:30	fgo
Chromium	23.4	mg/kg	SW-846 6010B	4/19/2014	15:12	fgo
Lead	14.0	mg/kg	SW-846 6010B	4/19/2014	15:12	fgo
Magnesium (Water Soluble)	< 1.00	meq/L	SW-846 6010B	4/22/2014	11:30	fgo
Selenium	< 2.50	mg/kg	SW-846 6010B	4/19/2014	15:12	fgo
Silver	< 2.50	mg/kg	SW-846 6010B	4/19/2014	15:12	fgo
Sodium (Water Soluble)	16.0	meq/L	SW-846 6010B	4/22/2014	11:30	fgo
True Total Barium	171,000	mg/kg	SW-846 6010B	4/22/2014	10:56	fgo
Zinc	50.3	mg/kg	SW-846 6010B	4/19/2014	15:12	fgo
Mercury	0.0511	mg/kg	SW-846 7471A	4/19/2014	17:39	fgo
Solid Metal Digestion Hg	100/0.58	mL/g	SW-846 7471A	4/17/2014	8:50	fgo
Benzene	< 0.0596	mg/kg	SW-846 8260B	4/21/2014	13:45	fgo
VOC 5035 Extraction	10/10.0	mL/g	SW-846 8260B	4/17/2014	8:03	fgo
Sulfate	1,270	mg/kg	Tex-620-J	4/19/2014	22:29	fgo
Sulfate Extraction/Leaching	50/5.48	mL/g	Tex-620-J	4/17/2014	10:28	fgo
1005 TPH Extraction Solid	10/10.2	mL/g	TNRCC TX 1005	4/17/2014	7:59	fgo
C12 to C28 TPH	145,000	mg/kg	TNRCC TX 1005	4/17/2014	18:45	fgo
C28 to C36 TPH	4,270	mg/kg	TNRCC TX 1005	4/17/2014	18:45	fgo
C6 to C12 TPH	10,000	mg/kg	TNRCC TX 1005	4/17/2014	18:45	fgo
C6 to C36 TPH	159,000	mg/kg	TNRCC TX 1005	4/17/2014	18:45	fgo

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Quality Control Data

Analyte	QC Parameter		Result	Units	Reference Value	Units
Chloride	Blank	Method Blank	< 1.0	ppm		
	CCV1	Recovery	102	%	True Value	20 ppm
	CCV2	Recovery	95.9	%	True Value	10 ppm
	CCV3	Recovery	96.8	%	True Value	10 ppm
	Dup-A	A Reading	27,100	ppm		
	Dup-B	B Reading	27,200	ppm		
	Dup-RPD1	Relative% Difference	0.425	%		
	LCS	Recovery	91.3	%	Spike Amount	8 ppm
	LCSD	Recovery	91.1	%	Spike Amount	8 ppm
	LCS-RPD	Relative% Difference	0.137	%		
	MS	Recovery	102	%	Spike Amount	8 ppm
C6-C12 TPH	Blank	Method Blank	< 50	ppm		
	CCV1	Recovery	107	%	True Value	1000 ppm
	CCV2	Recovery	106	%	True Value	1000 ppm
	Dup-A	A Reading	26,000	ppm		
	Dup-B	B Reading	24,600	ppm		
	Dup-RPD1	Relative% Difference	5.58	%		
	LCS	Recovery	105	%	Spike Amount	500 ppm
	LCSD	Recovery	101	%	Spike Amount	500 ppm
	LCS-RPD	Relative% Difference	4.3	%		
C12-C28 TPH	Blank	Method Blank	< 50	ppm		
	CCV1	Recovery	119	%	True Value	1000 ppm
	CCV2	Recovery	122	%	True Value	1000 ppm
	Dup-A	A Reading	172,000	ppm		
	Dup-B	B Reading	163,000	ppm		
	Dup-RPD1	Relative% Difference	5.12	%		
	LCS	Recovery	103	%	Spike Amount	500 ppm
	LCSD	Recovery	99.3	%	Spike Amount	500 ppm
	LCS-RPD	Relative% Difference	3.77	%		
Benzene	Blank	Method Blank	< 0.0010	ppm		
	CCV1	Recovery	108	%	True Value	0.02 ppm
	LCS	Recovery	103	%	Spike Amount	0.02 ppm
	LCSD	Recovery	103	%	Spike Amount	0.02 ppm
	LCS-RPD	Relative% Difference	0.631	%		
	MS	Recovery	102	%	Spike Amount	0.02 ppm
	MSD	Recovery	107	%	Spike Amount	0.02 ppm
	MS-RPD	Relative% Difference	4.44	%		

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Analyte	QC Parameter		Result	Units	Reference Value	Units
Alkalinity	Dup-A	A Reading	7,010	ppm		
	Dup-B	B Reading	8,060	ppm		
	Dup-RPD1	Relative% Difference	13.9	%		
	LCS	Recovery	100	%	Spike Amount	50000 ppm
	LCSD	Recovery	101	%	Spike Amount	50000 ppm
	LCS-RPD	Relative% Difference	0.995	%		
Electrical Conductivity	Dup-A(EC)	Reading	64.5	mho/c		
	Dup-B(EC)	Reading	63.2	mho/c		
	Dup-RPD1	Relative% Difference	2.04	%		
	Standard1(EC)	Reading	13	mho/c	True Value	12.9 mho/c
	Standard1(EC)	Reading	1.439	mho/c	True Value	1.412 mho/c
	Standard2(EC)	Reading	1.44	mho/c	True Value	1.412 mho/c
	Standard2(EC)	Reading	12.95	mho/c	True Value	12.9 mho/c
SWP	Blank%	Method Blank	< 0.10	%		
	Dup-A%	A Reading	47.9	%		
	Dup-B%	B Reading	48.4	%		
	Dup-RPD1	Relative% Difference	1.01	%		
pH at 25 C	Dup-A(pH)	Reading	10.87	SU		
	Dup-B(pH)	Reading	10.49	SU		
	Dup-RPD1	Relative% Difference	3.56	%		
	pH 10 Buffer(1st)	Reading	10.01	SU	True Value	10 SU
	pH 10 Buffer(2nd)	Reading	10.05	SU	True Value	10 SU
	pH 7 Buffer(2nd)	Reading	7.05	SU	True Value	7 SU
Sulfate	Blank	Method Blank	< 0.10	ppm		
	CCV1	Recovery	109	%	True Value	40 ppm
	CCV2	Recovery	93.5	%	True Value	20 ppm
	CCV3	Recovery	91.2	%	True Value	20 ppm
	Dup-A	A Reading	1,000	ppm		
	Dup-B	B Reading	964	ppm		
	Dup-RPD1	Relative% Difference	4.16	%		
	LCS	Recovery	89.6	%	Spike Amount	8 ppm
	LCSD	Recovery	92.1	%	Spike Amount	8 ppm
	LCS-RPD	Relative% Difference	2.75	%		
	MS	Recovery	90.6	%	Spike Amount	8 ppm
Barium, True Total	Blank	Method Blank	< 0.0050	ppm		
	CCV1	Recovery	101	%	True Value	10 ppm
	CCV2	Recovery	99.9	%	True Value	10 ppm
	Dup-A	A Reading	90,800	ppm		
	Dup-B	B Reading	92,600	ppm		
	Dup-RPD1	Relative% Difference	1.97	%		
	ICV	Recovery	102	%	True Value	5 ppm
Mercury	Blank	Method Blank	< 0.00020	ppm		
	CCV1	Recovery	97	%	True Value	0.005 ppm
	CCV2	Recovery	97	%	True Value	0.005 ppm
	LCS	Recovery	109	%	Spike Amount	0.005 ppm
	LCSD	Recovery	113	%	Spike Amount	0.005 ppm
	LCS-RPD	Relative% Difference	3.32	%		
	MS	Recovery	118	%	Spike Amount	0.005 ppm
	MSD	Recovery	118	%	Spike Amount	0.005 ppm

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Analyte	QC Parameter		Result	Units	Reference Value	Units
	MS-RPD	Relative% Difference	0.0581	%		
Arsenic	Blank	Method Blank	< 2.5	ppm		
	CCV2	Recovery	98.7	%	True Value	10 ppm
	CCV3	Recovery	98.3	%	True Value	10 ppm
	ICV	Recovery	103	%	True Value	5 ppm
	LCS	Recovery	93.4	%	Spike Amount	0.5 ppm
	LCSD	Recovery	90.8	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	2.84	%		
	MS	Recovery	87.6	%	Spike Amount	0.5 ppm
	MSD	Recovery	89.5	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	2.09	%		
Ca, water soluble	Blank	Method Blank	< 1.0	ppm		
	CCV1	Recovery	103	%	True Value	100 ppm
	CCV2	Recovery	99.3	%	True Value	100 ppm
	Dup-A	A Reading	16,200	ppm		
	Dup-B	B Reading	16,000	ppm		
	Dup-RPD1	Relative% Difference	1.48	%		
	ICV	Recovery	103	%	True Value	50 ppm
Cadmium	Blank	Method Blank	< 2.5	ppm		
	CCV2	Recovery	97.8	%	True Value	5 ppm
	CCV3	Recovery	96.5	%	True Value	5 ppm
	ICV	Recovery	102	%	True Value	2.5 ppm
	LCS	Recovery	91.7	%	Spike Amount	0.25 ppm
	LCSD	Recovery	88.8	%	Spike Amount	0.25 ppm
	LCS-RPD	Relative% Difference	3.21	%		
	MS	Recovery	81.9	%	Spike Amount	0.25 ppm
	MSD	Recovery	82.2	%	Spike Amount	0.25 ppm
	MS-RPD	Relative% Difference	0.299	%		
Chromium	Blank	Method Blank	< 2.5	ppm		
	CCV2	Recovery	98.9	%	True Value	10 ppm
	CCV3	Recovery	98.7	%	True Value	10 ppm
	ICV	Recovery	103	%	True Value	5 ppm
	LCS	Recovery	95.4	%	Spike Amount	0.5 ppm
	LCSD	Recovery	92.9	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	2.65	%		
	MS	Recovery	84.4	%	Spike Amount	0.5 ppm
	MSD	Recovery	80.7	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	4.5	%		
Lead	Blank	Method Blank	< 2.5	ppm		
	CCV2	Recovery	97.9	%	True Value	10 ppm
	CCV3	Recovery	97.2	%	True Value	10 ppm
	ICV	Recovery	102	%	True Value	5 ppm
	LCS	Recovery	92.8	%	Spike Amount	0.5 ppm
	LCSD	Recovery	90.4	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	2.54	%		
	MS	Recovery	86.5	%	Spike Amount	0.5 ppm
	MSD	Recovery	74.8	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	14.5	%		

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Analyte	QC Parameter		Result	Units	Reference Value	Units
Mg, water soluble	Blank	Method Blank	< 1.0	ppm		
	CCV1	Recovery	103	%	True Value	100 ppm
	CCV2	Recovery	98.9	%	True Value	100 ppm
	Dup-A	A Reading	4.98	ppm		
	Dup-B	B Reading	4.99	ppm		
	Dup-RPD1	Relative% Difference	0.303	%		
	ICV	Recovery	105	%	True Value	50 ppm
Na, water soluble	Blank	Method Blank	< 1.0	ppm		
	CCV1	Recovery	100	%	True Value	100 ppm
	CCV2	Recovery	101	%	True Value	100 ppm
	Dup-A	A Reading	685	ppm		
	Dup-B	B Reading	616	ppm		
	Dup-RPD1	Relative% Difference	10.6	%		
	ICV	Recovery	106	%	True Value	50 ppm
Selenium	Blank	Method Blank	< 2.5	ppm		
	CCV2	Recovery	98.8	%	True Value	10 ppm
	CCV3	Recovery	97.6	%	True Value	10 ppm
	ICV	Recovery	105	%	True Value	5 ppm
	LCS	Recovery	90.4	%	Spike Amount	0.5 ppm
	LCSD	Recovery	87.3	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	3.51	%		
	MS	Recovery	87.6	%	Spike Amount	0.5 ppm
	MSD	Recovery	83.2	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	5.26	%		
Silver	Blank	Method Blank	< 2.5	ppm		
	CCV2	Recovery	99.9	%	True Value	2 ppm
	CCV3	Recovery	99.9	%	True Value	2 ppm
	ICV	Recovery	96.4	%	True Value	1 ppm
	LCS	Recovery	95	%	Spike Amount	0.1 ppm
	LCSD	Recovery	91.6	%	Spike Amount	0.1 ppm
	LCS-RPD	Relative% Difference	3.64	%		
	MS	Recovery	92.8	%	Spike Amount	0.1 ppm
	MSD	Recovery	90.8	%	Spike Amount	0.1 ppm
	MS-RPD	Relative% Difference	2.18	%		
Zinc	Blank	Method Blank	< 2.5	ppm		
	CCV2	Recovery	96.9	%	True Value	10 ppm
	CCV3	Recovery	95.6	%	True Value	10 ppm
	ICV	Recovery	102	%	True Value	5 ppm
	LCS	Recovery	90.8	%	Spike Amount	0.5 ppm
	LCSD	Recovery	88.5	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	2.57	%		
	MS	Recovery	77.6	%	Spike Amount	0.5 ppm
	MSD	Recovery	71.9	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	7.65	%		
Total Solids	Blank%	Method Blank	< 0.10	%		
	Dup-A%	A Reading	85.6	%		
	Dup-B%	B Reading	85.3	%		
	Dup-RPD1	Relative% Difference	0.344	%		

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Approved by

Greg Oliver, Lab Manager

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Chain of Custody

greg.oliver@gco-labs.com
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Report to: J. B. Scott
Company: Scott Environmental Services
Address: P.O. Box 6215
City: Longview State: Texas Zip: 75608
Project name/Location: S2785-UT
Billing Address (if different):
City: State: Zip:
Sampler Signature: Printed Name: PO Number:

Analysis Request

Lab Use Only	Field Identification	Date	Time	Matrix	#Bottles	Notes	Routine Salinity #1	Benzene	TCEQ 1005	LA 29B metals
140416Q004	OBC-A	4/10/14	—	Solid	3		✓	✓	✓	✓

Date:	Time:	Relinquished by: Printed:	Signature:	Affiliation:	Received by: Printed Name:	Signature:	Affiliation:
4/14/14	1630	Deti Washington	[signature]	S.E.S.	GCO Labs	Greg Oliver	GCO Labs

Laboratory Approved by the Texas Railroad Commission

visit us at www.gco-labs.com

Form 3160-4
(March 2012)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: October 31, 2014

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.: Patented

1a. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☑ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,
Other: _____

6. If Indian, Allottee or Tribe Name:

7. Unit or CA Agreement Name and No.:

2. Name of Operator: NEWFIELD PRODUCTION COMPANY

8. Lease Name and Well No.: RANCH 15-10-3-3-2W-MW

3. Address: ROUTE #3 BOX 3630, MYTON, UT 84052

3a. Phone No. *(include area code)*: Ph:435-646-3721

9. API Well No.: 43-013-52296

4. Location of Well *(Report location clearly and in accordance with Federal requirements)**

At surface: 368' FSL 2311' FEL (SW/SE) SEC 10 T3S R2W

10. Field and Pool or Exploratory: NORTH MYTON BENCH

11. Sec., T., R., M., on Block and Survey or Area: SEC 10 T3S R2W

At top prod. interval reported below: 660' FSL 1989' FEL (SW/SE) SEC 10 T3S R2W

At total depth: 544' FNL 1997' FEL (NW/NE) SEC 3 T3S 2W

12. County or Parish: DUCHESNE

13. State: UT

14. Date Spudded: 08/24/2014

15. Date T.D. Reached: 12/22/2014

16. Date Completed: 02/23/2015 ☐ D & A ☑ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*: 5345' GL 5373' KB

18. Total Depth: MD 19045' TVD 9693'

19. Plug Back T.D.: MD TVD

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
DUAL IND GRD, SP, COMP. NEUTRON, GR, CALIPER, CMT BOND

22. Was well cored? ☑ No ☐ Yes (Submit analysis)
Was DST run? ☑ No ☐ Yes (Submit report)
Directional Survey? ☐ No ☑ Yes (Submit copy)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
19-1/2"	13-3/8" J-55	54.50	0'	1656'		1225 CLASS G			
12-5/8"	9-5/8" N-80	40.00	0'	8531'		1015 Varicem			
						360Expandacem			
8-7/8"	5-1/2" P-110	20	0'	19027'		2195 Elastiseal			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)

25. Producing Intervals / 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	9680'	18,066'	9680' - 18066' MD	0.38	927	
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
9680' - 18066' MD	Frac w/ 5,153,490#s of proppant sand in 102,019 bbls of clean fluid, in 34 stages.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
2/23/15	3/3/15	24	→	863	681	499			FLOWING

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
			→					PRODUCING

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
			→					

*(See instructions and spaces for additional data on page 2)

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status

29. Disposition of Gas *(Solid, used for fuel, vented, etc.)*

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
				GARDEN GULCH MARK	6599'
				DOUGLAS CREEK	7748'
				CASTLE PEAK	8528'
				UTELAND BUTTE	8832'
				WASATCH	8964'
				WASATCH 11	9179'

32. Additional remarks (include plugging procedure):

Bottom Producing Interval: 1468' FNL 1985' FEL (SW/NE) SEC 3 T3S 2W

33. Indicate which items have been attached by placing a check in the appropriate boxes:

☐ Electrical/Mechanical Logs (1 full set req'd.) ☐ Geologic Report ☐ DST Report ☑ Directional Survey

☐ Sundry Notice for plugging and cement verification ☐ Core Analysis ☑ Other: Drilling daily activity

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name *(please print)* Heather Calder Title Regulatory Technician

Signature Heather Calder Date 03/25/2015

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

NEWFIELD

Summary Rig Activity

Well Name: Ranch 15-10-3-3-2W-UW

Job Category	Job Start Date	Job End Date

Daily Operations

Report Start Date	Report End Date	24hr Activity Summary
1/8/2015	1/9/2015	Install tbg head

Start Time	End Time	Comment
06:00	16:30	JSA and safety meeting with all vendors. Install FMC TC-1A-ENS Tbg head(13 5/8" – 10K STDD btm x 5 1/8"-10K STDD top with 2 – 1 13/16"-10K M-130 Plus gate valves on each side outlet). Retrieving too' for TWCV would not go through tbg head. Sent it to be turned down.
16:30	21:00	Wait on retrieving tool.
21:00	22:00	Well had 0 Psi on well. MIRU FMC Install FMC TC-1A-ENS Tbg head(13 5/8" – 10K STDD btm x 5 1/8"-10K STDD top with 2 – 1 13/16"-10K M-130 Plus gate valves on each side outlet). Retrieving tool for TWCV, Retrieve TWCV. Install night cop and shut down for night. (frac valve hard to close, hard to turn)
22:00	00:00	SDFN

Report Start Date	Report End Date	24hr Activity Summary
1/9/2015	1/10/2015	NU frac stack & test, Log well

Start Time	End Time	Comment
00:00	07:00	Wait on daylight
07:00	12:00	JSA and safety meeting with all vendors. Wait while NU and test frac tree on Ute Tribal 14-10-3-3-2 W.
12:00	19:00	When frac stack was delivered noticed that test chart on HCR had 200 psi pressure loss during test in the shop. Sent it back to be repaired. Wait on HCR valve.
19:00	23:00	New HCR valve on location, Finish NU of frac stack, Test same, unable to get good test on HCR valve, called in for replacement.
23:00	00:00	Wait on new HCR valve.

Report Start Date	Report End Date	24hr Activity Summary
1/10/2015	1/11/2015	NU frac stack & test, Log well

Start Time	End Time	Comment
00:00	02:00	Wait on new HCR valve.
02:00	03:30	Replace HCR valve and finish NU and testing of frac stack.
03:30	12:00	Shut in well and wait on wireline to log well
12:00	18:00	RU lubricator and logging tools. Test lubricator to 5000 psi. RIH with Sector Bond log, GR, and CCL logs. Log from 9372' to surface. TOC at 2250' RD WL trk.
18:00	18:30	Wait on water truck.
18:30	00:00	Pump into well and try to open toe. Pressure up on well 13 times at 7 bpm at 9,300 psi, well holding, held pressure for 10 mins at 9,228 psi lost to 9,134 psi. Continue to work well. Tie in B&C and take well to 9,900 psi. repeat step same result. Continue to pressure up on toe and bleed off and pressure to 9,900 psi, with no change in well status,

Report Start Date	Report End Date	24hr Activity Summary
1/11/2015	1/12/2015	try to open toe

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NEWFIELD

Summary Rig Activity

Well Name: Ranch 15-10-3-3-2W-UW

Start Time	End Time	Comment
00:00	14:00	Continue Pump into well and try to open toe. Pressure up on well 13 times at 7 bpm at 9,300 psi, well holding, held pressure for 10 mins at 9,228 psi lost to 9,134 psi. Continue to work well. Attempt to open toe, pressure up to 9,900 psi 20 times, hold pressure with no leak off. Bleed off pressure and recover fluid pumped. Trap 9500 psi on well. RDMO HES trucks. RU line to monitor WH pressure. Recieved word from Orson Barney to bleed pressure off well, stop Welltec with their tractor, and to RD WL truck. Decision was made to change out well head. Rig down WL. Plan to change out tbg head.
14:00	18:00	Wait on tbg head.

Report Start Date	Report End Date	24hr Activity Summary
1/12/2015	1/13/2015	Wait on well head

Start Time	End Time	Comment
00:00	00:00	Wait on well head

Report Start Date	Report End Date	24hr Activity Summary
1/13/2015	1/14/2015	Wait on well head

Start Time	End Time	Comment
00:00	00:00	wait on well head

Report Start Date	Report End Date	24hr Activity Summary
1/14/2015	1/15/2015	Wait on well head

Start Time	End Time	Comment
00:00	00:00	wait on well head, ND 5 1/8" 10K Frac Stack leaving 5 1/8" 10K Manuel valve on wellhead, N/U 10K Night cap W/ ½" Bleeder valve, Rain for Rent Spot in 16 – 500bbl. Frac tanks

Report Start Date	Report End Date	24hr Activity Summary
1/15/2015	1/16/2015	Wait on well head

Start Time	End Time	Comment
00:00	00:00	Wait on well head

Report Start Date	Report End Date	24hr Activity Summary
1/16/2015	1/17/2015	Wait on well head

Start Time	End Time	Comment
00:00	00:00	Wait on wellhead

Report Start Date	Report End Date	24hr Activity Summary
1/17/2015	1/18/2015	Wait on well head

Start Time	End Time	Comment
00:00	00:00	Waiting on wellhead

Report Start Date	Report End Date	24hr Activity Summary
1/18/2015	1/19/2015	Wait on well head

Start Time	End Time	Comment
00:00	00:00	Waiting on wellhead

Report Start Date	Report End Date	24hr Activity Summary
1/19/2015	1/20/2015	Wait on well head

Start Time	End Time	Comment
00:00	00:00	Waiting on wellhead

Report Start Date	Report End Date	24hr Activity Summary
1/20/2015	1/21/2015	Wait on well head

Start Time	End Time	Comment
00:00	00:00	Wait on wellhead

Report Start Date	Report End Date	24hr Activity Summary
1/21/2015	1/22/2015	Wait on well head

Start Time	End Time	Comment
00:00	00:00	Wait on wellhead

Sundry Number: 62478 API Well Number: 43013522960000

NEWFIELD

Summary Rig Activity

Well Name: Ranch 15-10-3-3-2W-UW

Daily Operations

Report Start Date	Report End Date	24hr Activity Summary
1/22/2015	1/23/2015	Wait on well head

Start Time	End Time	Comment
00:00	09:30	Wait on wellhead
09:30	14:30	Hold JSA, R/U & Pressure test FMC Lubricator, Install 5" back pressure valve, N/D 5 1/8" 10K Tubing head, NU 13 5/8" X 11" 10K DSA, 11" X 7 1/16" 10K Tubing head, NU 7 1/16" 10K Manuel Frac valve, R/U Lubricator, Pull 5" back pressure valve, R/D FMC Lubricator
14:30	19:30	NU Frac Stack, 7 1/16" 10K "Upper Master" Hydraulic frac valve (HCR), 7 1/16" 10K Flowcross with dual, double 4 1/16" outlets, 7 1/16" 10K "Crown" manuel frac valve, 10K 4 1/16" Ball Catcher
19:30	21:30	Pressure test Frac Stack to Newfields pressure testing guidelines 250 psi low / 10,000 psi high
21:30	00:00	Get tractor tested & PU into lubricator. R/U 5 ½" 10K Lubricator. Test lubricator as per Newfield's procedures.

Report Start Date	Report End Date	24hr Activity Summary
1/23/2015	1/24/2015	Wait on well head

Start Time	End Time	Comment
00:00	12:00	RIH W/ Well Tractor & 3 – 3' Perf Guns. Tagged @ 18,101', Corralate W/Recepticles @ 18,018', 17,808', Perforate Stage 3, Cluster 3 @ 18,063', Stage 4 Clusters 1 & 2 @ 17,976', & 17,911', Log out of hole, R/D Wireline, N/D 5 1/2" 10K Wireline Flange, N/U 10K Night Cap
12:00	00:00	Wait on Frac, PRO'S Flowback R/U Flowback Equipment, Rain for Rent spot in 3 - 500 bbl Frac tanks for Pump down

Report Start Date	Report End Date	24hr Activity Summary
1/24/2015	1/25/2015	SDFN & wait on frac

Start Time	End Time	Comment
00:00	07:00	SDFN & wait on frac
07:00	10:00	B&C Quick Test pressure test PRO'S Flowback lines & manifolds to Newfields standards
10:00	20:00	SDFN & wait on frac. Goff Trucking load mountain movers w/frac sand.
20:00	00:00	N/U Zipper Frac Manifold & test as per Newfield's procedures.

Report Start Date	Report End Date	24hr Activity Summary
1/25/2015	1/26/2015	Goff trucking unloading sand. RU & test zipper frac manifold

Start Time	End Time	Comment
00:00	09:00	SDFN wait on frac.
09:00	13:00	Move in Halliburton Frac Equipment, RU SLB Crane & equip. R4R RU spill ponds for Halliburton.
13:00	22:00	Move in Halliburton Frac Equipment, RU SLB Crane & equip. R4R RU spill ponds for Halliburton., Rockwater testing H2O Lines, Haliburton Moving in pump down equipment
22:00	00:00	All frac equipment in place & ready to frac. SDFN & Wait on daylights to start frac. Rockwater is transfering H20 into frac tanks.

Report Start Date	Report End Date	24hr Activity Summary
1/26/2015	1/27/2015	MIRU Halliburton frac equipment.

Start Time	End Time	Comment
00:00	06:00	SDFN & Wait on frac. Rockwater is transfering H20 into frac tanks.

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Start Time	End Time	Comment
06:00	09:00	Halliburton having computer issues, Rock water filling frac tanks W/H20 @ 20:30 @ 15 BPM H20 coming into tanks is @ 84 deg.
09:00	11:00	The Weatherford zipper manifold had a leak on the barrel of the HCR valve on the 15-10-3-3-2 W-UW side. We relieved all the psi and got about a ¼" of turn on it and it still leaked. Weatherford is bring out a new seal kit to get it fixed.
11:00	14:00	25bpm @ 7585psi. 14bpm @ 6300psi. 437.8bbls pumped with 10bbls of that being 15% acid. Waited on wireline to get in the 14-10-3-3-2W-MW.
14:00	18:30	While pressure testing Schlumberger Lubricator to 10k we had a leak on one of the connections. So, Schlumberger will have to lay down the lubricator to get it fixed.
18:30	22:00	Pick back up the lubricator and re-pressure test to 10k. Test was good & RIH with guns to KOP. pumped down guns at 15 bpm @ 6500 Psi, @ 255 fpm, 584 LT, pumped guns to 17,861', Pulled up and got line tension. POH and perf'ed at 17,853-17856'. POOH with tools, max pressure for pump down: 6500 psi. Max rate for pump down - 15 bpm. Total BBls pumped – 523 +/- bbls. The instrumentation on the frac side was not reading correctly so the total bbls pumped is a calculation not an exact. POOH W/tools. We are working on getting the readings for the pump downs fixed so that we can have correct information.
22:00	00:00	Start Frac stage #1

Report Start Date	Report End Date	24hr Activity Summary
1/27/2015	1/28/2015	Start frac & P&P

Start Time	End Time	Comment
00:00	00:30	Start Frac stage #1. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water with 0.25% KCl .2. Calculated 12 holes open, 2452 psi perf friction, 768 psi NWB as per FracPro. 3. Stage went well with all proppant placed. WG-36-14.6% (278.2), BC-200-5.2% (9.9), CL-31-8.7% (2.5) MO-67 -8.7% (6.2), MC S-2010T-17.8% (11.9), Vicon NF-3.3% (6.8), Losurf 300D-6.6% (8.8)Cat 3/4-5.2% (2.5), BE-9-5% (1.8)
00:30	11:00	RIH W/stage #2 guns & plug. While RIH @248 fpm & line tension @548 lbs we lost collars on log checked to make sure that guns were still there & everything was communicating. We then started to lose tension so we stopped pumps & stopped RIH. Pulled up slowly to get tension & started to pull over. Ran the numbers & found out that we had stopped moving within a few feet of receptacle #9 @16,562'. Started pumps back up @ 3 bpm & worked up & down to try & work free. Could not get free. We continued to pump 3 bpm around plug. Still in the process of working up & down to try & get free. Pulled up to 3500 lbs on line tension & plug came free. Started TOOH @35 fpm until we got thru a couple of receptacles. Pulled to receptacle #10 & pulled over. Brought pumps on to pump us back down & we got moving down freely 40' & stopped. Came back up to receptacle #10 & pulled over again. Pumped back down in between the 2 receptacles & let plug soak while we P&P on the 14-10.
11:00	14:00	We just pumped a 10bbl brine pill to cover up the Schlumberger plug 16,305'. We pump at 3bpm @ 4417psi., 6bpm @ 4575psi., 9bpm @ 4900psi., 11bpm @ 5100psi. No movement so we went back down to 9bpm @ 5031psi. We will wait another couple of hours and try and pull on the plug again.
14:00	18:00	Got unstuck and And are POOH. Inspect plugs.
18:00	20:00	Sweep well bore with 10 bbl acid, 51 bbl gel sweep, and 588 bbl recycled water.

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NEWFIELD

Summary Rig Activity

Well Name: Ranch 15-10-3-3-2W-UW

Start Time	End Time	Comment
20:00	00:00	Run 4.32" OD bull nosed gauge ring and sinker bars to 17,810', no obstruction. LTEN 800, 150 fpm, 15 bpm, max press 5880 psi. POH.

Report Start Date	Report End Date	24hr Activity Summary
1/28/2015	1/29/2015	Work stuck frac plug

Start Time	End Time	Comment
00:00	03:00	Continue to POH with gauge ring.
03:00	06:00	Plug and Perf stage #2 RIH with guns and plug to KOP. pumped down guns at 14 bpm, 6043 psi and 150 fpm, 805 LTEN, pumped guns to 17816'. Pulled up and got line tension and set plug at 17,779'while pumping 2 bpm. Increase pump rate to 12 bpm and latched plug into receptacle at 17,808'. Pulled off with 2320 line tension at 04:40 AM. POH and perf at 17,756-759'. Guns #2, 3, and 4 would not fire. POOH with tools. max pressure for pump down: 6043 psi. Max rate for pump down- 14.1bpm. Pumped 870 bbl total water. POH.
06:00	10:00	RIH to finish perfs on stg #2. RIH to KOP. pumped down guns at 15 bpm, 5993 psi and 209 fpm, 715 LTEN, pumped guns to 17710'. Perf'ed at 17,671'-674' and 17,604'-607'. Max pressure for pump down: 6003 psi. Max rate for pump down- 15bpm. Pumped 637 bbl total water. We are POOH. Once OOH will check guns.
10:00	12:00	1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water with 0.25% KCl. 2. Calculated 24 holes open, 936 psi perf friction, 944 psi NWB as per FracPro. 3. Saw good ball action at 30bpm. 4. Able to get to designed 60bpm before starting prop. 5. Had Blender tub drop after swapping to fresh water on flush, reduced rate to 50bpm to finish flush. 6. No other issues, good job by crew working with changes in operation. Ball Seat Stage Pressures and Rate: 7015 psi @ 30 bpm , 6360 psi Pressure before Seating , 6815 psi Pressure after Seating. WG-36-3.9% (74.8), FR-76-4.6% (1.3), CLA-Web-4.9% (1), BE-9-9.7% (7.5)
12:00	20:00	Waiting on orders.
20:00	23:00	Decision was made to change wire line company. RD EP wireline truck and equipment. Move off location.
23:00	00:00	Wait on FTS wireline truck.

Report Start Date	Report End Date	24hr Activity Summary
1/29/2015	1/30/2015	P&P, frac stage 3

Start Time	End Time	Comment
00:00	12:00	Spot in FTS wireline truck and crane. Put lubricator together. Prepare perf guns to PU and RIH.
12:00	15:00	P&P stg #3 RIH with guns and Plug to KOP. pumped down guns at 15bpm @ 6025Psi, @ 150fpm, 1070LT, pumped guns to 17,527', Pulled up and got line tension and set plug. Line tension prior to setting plug 1700, line tension after plug set 1550, Set plug @ 17,550' plug set time 14:04. POOH and perf'ed at 17,495-498', 17,442'-445', 17,370'-373'. POOH with tools, max pressure for pump down- 6050psi. Max rate for pump down- 11.1bpm. Total BBls pumped- 578bbls.
15:00	17:00	Frac stage 3. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water with 0.25% KCl . 2. Calculated 20 holes open, 716 psi perf friction, 329 psi NWB as per FracPro. 3. Able to get to designed rate of 60bpm with no trouble. 4. Lost rate briefly in the 3ppg sand stg, pump came off but were able to get back on. 5. No other issues, able to place job completely. 6. ProTechnics pumped 16cups of CFT-1200. Ball Seat Stage Pressures and Rate: 5795 psi @ 15 bpm , 5650 psi Pressure before Seating , 5795 psi Pressure after Seating CL-31-5.8% (1.6) MC S-2010T-2.9% (2.2) BE-9-5.7% (2.7)

Sundry Number: 62478 API Well Number: 43013522960000

NEWFIELD

Summary Rig Activity

Well Name: Ranch 15-10-3-3-2W-UW

Start Time	End Time	Comment
17:00	21:00	P&P stg #4. RIH with guns and plug to KOP. pumped down guns at 12.5 bpm and 5747 psi, 185 fpm, 1030LT, pumped guns to 17,271'. Pulled up and got line tension and set plug. Line tension prior to setting plug 1459, line tension after plug set 1322. Set plug at 17,263'. Plug set time 60 seconds. POOH and perfed at 17,273-276', 17,163'-166', 17,090'-093'. POOH with tools, max pressure for pump down- 5800 psi. Max rate for pump down- 12.5 bpm. Total bbls pumped- 560 bbls.
21:00	00:00	Frac stage #4. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water with 0.25% KCl . 2. Calculated 18 holes open, 1172 psi perf friction, 0 psi NWB as per FracPro. 3. Held 5 ppg due to pressure rises observed with increases in proppant concentration on formation. 4. Well was successfully flushed with all proppant placed. 5. Protechnics pumped 16 cups of CFT 1200. Ball Seat Stage Pressures and Rate: 5900 psi @ 14.6 bpm , 5658 psi Pressure before Seating , 5900 psi Pressure after Seating WG-36-9% (166.7), Cat 3/4-5.5% (2.6), BE-9-4% (1.5)

Report Start Date	Report End Date	24hr Activity Summary
1/30/2015	1/31/2015	P&P, frac

Start Time	End Time	Comment
00:00	03:00	P&P stg #5. RIH with guns and plug to KOP. pumped down guns at 12 bpm and 5660 psi, 193 fpm, 1002 LT, pumped guns to 17,050'. Pulled up and got line tension and set plug. Line tension prior to setting plug 1471, line tension after plug set 1351. Set plug at 17,044'. Plug set time 28 seconds. POOH and perfed at 17,019-022', 16,926'-929', 16,842'-845'. POOH with tools, max pressure for pump down- 6012 psi. Max rate for pump down- 12 bpm. Total bbls pumped- 513 bbls. POH. All tools recovered. All shots fired.
03:00	05:30	Frac stage #5. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water with 0.25% KCl . 2. Calculated 27 holes open, 532 psi perf friction, 595 psi NWB as per FracPro.3. Stage treated well with all proppant placed. 4. Had to drop rate during flush for the blender tub maintain. 5. Protechnics pumped Ball Seat Stage Pressures and Rate: 5911 psi @ 14.6 bpm , 5704 psi Pressure before Seating , 5911 psi Pressure after Seating. FR-76-9% (1.6), CL-31-7.3% (2) FE-2A-9% (1.6), MO-67-3.6% (2.4), MC S-2010T-2.4% (1.5) Losurf 300D-9.4% (11.9) Cat 3/4-4.4% (2), BE-9-5% (1.9)
05:30	10:00	P&P Stage # 6. P&P stg #6. RIH with guns and plug to KOP. pumped down guns at 12bpm and 5375 psi, 220 fpm, 950LT, pumped guns to 16,770'. Pulled up and got line tension and set plug. Line tension prior to setting plug 1635, line tension after plug set 1402. Set plug at 16,790'. Plug set time 48 seconds. POOH and perfed at 16,747-750', 16,664'-667', 16,613'-616'. POOH with tools, max pressure for pump down- 5850 psi. Max rate for pump down- 12.1 bpm. Total bbls pumped- 417 bbls.
10:00	12:30	Frac stg. #6. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water with 0.25% KCl. 2. Calculated 19 holes open, 843 psi perf friction, 317 psi NWB as per FracPro. 3. No problems getting to designed rate. 4. Lost MO-67 in 5.0ppg sand stage, lost Xlink, could not get back on. Cut prop and went to flush. 5. Able to flush well completely. Placed approx 136,100lbs or 90.7% of design. No resin coated sand was pumped. Ball Seat Stage Pressures and Rate: 5795 psi @ 14.9 bpm , 5520 psi Pressure before Seating , 5795 psi Pressure after Seating. WG-36-9.9% (171.6), BC-200-4.4% (7.7), CL-31-8.1% (2.1) MO-67-4.2% (2.7), Scalesorb 7-9.5% (10.5), MC S-2510T-3.9% (2.4) Vicon NF-4.5% (9.2), Losurf 300D-3.5% (4.3) Cat 3/4-4.3% (1.8), BE-9-4.4% (1.6)

Sundry Number: 62478 API Well Number: 43013522960000

NEWFIELD

Summary Rig Activity

Well Name: Ranch 15-10-3-3-2W-UW

Start Time	End Time	Comment
12:30	16:00	P&P stg. #7. P&P stg #7. RIH with guns and plug to KOP. pumped down guns at 12bpm and 5660 psi, 225 fpm, 950LT, pumped guns to 16,613'. Pulled up and got line tension and set plug. Line tension prior to setting plug 1728, line tension after plug set 1600. Set plug at 16,580'. Plug set time 52 seconds. POOH and perfed at 16,532-535', 16,452'-455', 16,349'-352'. POOH with tools, max pressure for pump down- 5660 psi. Max rate for pump down- 12.1 bpm. Total bbls pumped- 405 bbls.
16:00	18:00	Frac stage #7. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water with 0.25% KCl . 2. Calculated 18 holes open, 964 psi perf friction, 392 psi NWB as per FracPro. 3. Trouble with Blender tub fill valve at the end of Xlink pad, came off line to fix (water in cord connection). Down approx 15min Able to get back into interval and establish rate with no issues and extended Xlink pad before starting sand. 4. No other issues, placed job completely. 5. Protechnics pumped 15.5cups of CTF 1200. Ball Seat Stage Pressures and Rate: 5895 psi @ 14.9 bpm , 5570 psi Pressure before Seating , 5895 psi Pressure after Seating WG-36-7.7% (142.5), BC-200-4.9% (9.1), CL-31-4% (1.1) MO-67-3.3% (2.3), MC S-2510T-3.6% (2.3) Cat 3/4-5.4% (2.5), BE-9-4.7% (1.8)
18:00	21:30	P&P stg #8. RIH with guns and plug to KOP. pumped down guns at 12bpm and 5660 psi, 225 fpm, 950LT, pumped guns to 16,613'. Pulled up and got line tension and set plug. Line tension prior to setting plug 1728, line tension after plug set 1600. Set plug at 16,580'. Plug set time 52 seconds. POOH and perfed at 16,532-535', 16,452'-455', 16,349'-352'. POOH with tools, max pressure for pump down- 5660 psi. Max rate for pump down- 12.1 bpm. Total bbls pumped- 405 bbls. POH. All tools recovered. All shots fired.
21:30	22:30	Grease valves on frac tree.
22:30	00:00	Frac stage #8.

Report Start Date	Report End Date	24hr Activity Summary
1/31/2015	2/1/2015	P&P, frac

Start Time	End Time	Comment
00:00	01:00	Frac stage #8. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water with 0.25% KCl . 2. Calculated 20 holes open, 929 psi perf friction, 238 psi NWB as per FracPro. 3. Observed a weak crosslink with a 8.5 pH and cut the screws with 5 ppg on formation and 6 ppg on surface. 4. Dropped rate during flush until pumps kicked out with ~128 bbls left in flush. Well was turned over to flowback 5. Was determined there was an issue with the MO-67 during the stage. Ball Seat Stage Pressures and Rate: 5801 psi @ 15.3 bpm , 5587 psi Pressure before Seating , 5801 psi Pressure after Seating. WG-36-4% (64.9), MO-67-67.3% (41.2), BE-9-3.6% (1.2)
01:00	05:30	SIP 8500 psi. Flowback on 33/64 choke at 8 bpm for 520 bb l(wellbore volume 352 bbl). Set choke at 26/64 and flow at 5.5 bpm. When 720 bbl recovered, sample showed medium sand, set choke at 11/64 and flow at 3 bpm. Flowed well back while fracing UT 14-10-3-3-2. Flowed ttl 995 bbl water. Pump 424 bbl sweep.
05:30	09:00	P&P stage #9. P&P stg #9. RIH with guns and plug to KOP. pumped down guns at 12.1 bpm and 7060 psi, 230 fpm, 900 LTEN, pumped guns to 16,020'. Pulled up and got line tension and set plug. Line tension prior to setting plug 1635, line tension after plug set 1480. Set plug at 16,040'. Plug set time 56 seconds. POOH and perfed at 16,021-024', 15,940'-943', 15,866'-869'. POOH with tools, max pressure for pump down- 7060 psi. Max rate for pump down- 12.1 bpm. Total bbls pumped- 357 bbls.

Sundry Number: 62478 API Well Number: 43013522960000

NEWFIELD

Summary Rig Activity

Well Name: Ranch 15-10-3-3-2W-UW

Start Time	End Time	Comment
09:00	12:00	Frac Stg. #9. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water with 0.25% KCl. 2. Calculated 20 holes open, 802 psi perf friction, 408 psi NWB as per FracPro. 3. Good job with no issues, placed completely. Ball Seat Stage Pressures and Rate: 5780 psi @ 14.9 bpm , 5690 psi Pressure before Seating , 5780 psi Pressure after Seating. WG-36-3.9% (59.9), BC-200-4.9% (7.6). MO-67-3.6% (2.1), Vicon NF-4.2% (7.3), Losurf 300D-4.3% (5.4) Cat 3/4-6.2% (2.4), BE-9-3.2% (1.2)
12:00	15:30	P&P stg #10. RIH with guns and plug to KOP. pumped down guns at 12.1 bpm and 5490 psi, 220 fpm, 973 LTEN, pumped guns to 15,727'. Pulled up and got line tension and set plug. Line tension prior to setting plug 1644, line tension after plug set 1450. Set plug at 15,754'. Plug set time 63 seconds. POOH and perfed at 15725'-728', 15,650'-653', 15,598'-601'. POOH with tools, max pressure for pump down- 5980 psi. Max rate for pump down- 12.1 bpm. Total bbls pumped- 330 bbls...
15:30	18:30	Frac stgage #10. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water with 0.25% KCl. 2. Calculated 20 holes open, 432 psi perf friction, 1833 psi NWB as per FracPro. 3. Could only get to 30bpm @ 8900psi before taking steps for breakdown. 4. Had no water hammer and had high leak off, lost 200psi after 1min in 38sec and had FG of 1.114psi/ft. 5. Sent 1500lbs of 0.25-0.5ppg 100mesh slug to try to clean up. Had slight pressure increase when 100mesh reached bottom. 6. Decision made to clear wellbore and move on to s10. Ball Seat Stage Pressures and Rate: 6695 psi @ 14.7 bpm , 5855 psi Pressure before Seating , 6740 psi Pressure after Seating. WG-36-5% (13.3), Vicon NF-3.6% (1.9),
18:30	21:00	: P&P stg #11. RIH with guns and plug to KOP. pumped down guns at 12.1 bpm and 5630 psi, 217 fpm, 941 LTEN, pumped guns to 15,538'. Pulled up and got line tension and set plug. Line tension prior to setting plug 1551, line tension after plug set 1351. Set plug at 15,545'. Plug set time 57 seconds. POOH and perfed at 15517'-520', 15,425'-428', 15,357'-360'. POOH with tools, max pressure for pump down- 5670 psi. Max rate for pump down- 12.1 bpm. Total bbls pumped- 362 bbls.
21:00	21:30	Grease frac stack.
21:30	00:00	Frac stage #11. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water with 0.25% KCl . 2. Calculated 20 holes open, 969 psi perf friction, 0 psi NWB as per FracPro. 3. Pressure began creeping up with 5 ppg on formation. Dropped 5 bpm and turned down. 4. Well was successfully flushed with all proppant placed. 5. Protechnics pumped 15 cups of CFT 1500. Ball Seat Stage Pressures and Rate: 6147 psi @ 14.6 bpm , 5676 psi Pressure before Seating , 6147 psi Pressure after Seating WG-36-4.9% (74.5), BC-200-3% (4.4), MO-67-2.6% (1.5), Losurf 300D-2.6% (2.9)

Report Start Date	Report End Date	24hr Activity Summary
2/1/2015	2/2/2015	P&P, frac

Start Time	End Time	Comment
00:00	02:30	P&P stg #12. RIH with guns and plug to KOP. pumped down guns at 12.1 bpm and 5265 psi, 223 fpm, 950 LTEN, pumped guns to 15,317'. Pulled up and got line tension and set plug. Line tension prior to setting plug 1500, line tension after plug set 1375. Set plug at 15,335'. Plug set time 38 seconds. POOH and perfed at 15,282'-285', 15,185'-4188', 15,100'-103'. POOH with tools, max pressure for pump down- 5392 psi. Max rate for pump down- 12.1 bpm. Total bbls pumped- 337 bbls. POH. All tools recovered. All shots fired.

Sundry Number: 62478 API Well Number: 43013522960000

NEWFIELD

Summary Rig Activity

Well Name: Ranch 15-10-3-3-2W-UW

Start Time	End Time	Comment
02:30	06:00	Lost fluid end on pump while fracing on 14-10, we don't have enough horsepower to continue. Waiting on pump from Vernal.
06:00	07:30	Frac stg #12.1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water with 0.25% KCl 2. Calculated 23 holes open, 724 psi perf friction, 345 psi NWB as per FracPro 3. Cut rate twice with 4 ppg on formation due to a pressure climb 4. Well was successfully flushed. Ball Seat Stage Pressures and Rate: 5945 psi @ 15.2 bpm , 5647 psi Pressure before Seating , 5945 psi Pressure after Seating WG-36-6.1% (90.9), MC S-2510T-3.3% (1.7) Vicon NF-3.4% (6.1),
07:30	10:00	P&P stg #13. RIH with guns and plug to KOP. pumped down guns at 12.1 bpm and 5454 psi, 230 fpm, 880 LTEN, pumped guns to 15,080'. Pulled up and got line tension and set plug. Line tension prior to setting plug 1739, line tension after plug set 1570. Set plug at 15,048'. Plug set time 67 seconds. POOH and perfed at 15,022'-025', 14,952'-955', 14,859'-862'. POOH with tools, max pressure for pump down- 5454 psi. Max rate for pump down- 12.1 bpm. Total bbls pumped- 325 bbls.
10:00	13:30	Western Petroluem put diesel fuel in a hydraulic tank on the CRC Mountain Mover. Right now Halliburton is working on fixing the issue.
13:30	17:00	Frac stg. #13 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water with 0.25% KCl. 2. Calculated 22 holes open, 630 psi perf friction, 460 psi NWB as per FracPro. 3. Good job with no issues, placed completely. Ball Seat Stage Pressures and Rate: 5840 psi @ 14.7 bpm , 5485 psi Pressure before Seating , 5845 psi Pressure after Seating. BC-200-4% (5.9), MO-67-2.1% (1.2),MC S-2510T-3.1% (1.6) Vicon NF-4.2% (7.6), Cat 3/4-3.3% (1.2),
17:00	19:30	Waiting on the 14-10-3-3-2W-UW get wireline done to do the pump down.
19:30	22:00	P&P stg #14. RIH with guns and plug to KOP. pumped down guns at 12.1 bpm and 5593 psi, 208 fpm, 933 LTEN, pumped guns to 14,784'. Pulled up and got line tension and set plug. Line tension prior to setting plug 1487, line tension after plug set 1375. Set plug at 14,790'. Plug set time 60 seconds. POOH and perfed at 14,730'-733', 14,669'-672', 14,577'-580'. POOH with tools, max pressure for pump down- 5654 psi. Max rate for pump down- 12.1 bpm. Total bbls pumped- 331 bbls. POH. All tools recovered. All shots fired.
22:00	00:00	Wait on 14-10-3-3-2 frac stage #13 to finish.

Report Start Date	Report End Date	24hr Activity Summary
2/2/2015	2/3/2015	P&P, frac

Start Time	End Time	Comment
00:00	00:30	Wait on 14-10-3-3-2 stage #13 frac to finish.
00:30	02:00	Frac stage #14. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water with 0.25% KCl . 2. Calculated 27 holes open, 430 psi perf friction, 491 psi NWB as per FracPro. 3. Pressure came up during flush. Had 1 pump kick out as prop concentration fell at the perfs. 4. Protechnics pumped 15 cups of CFT 1900. Ball Seat Stage Pressures and Rate: 5635 psi @ 14.9 bpm , 5501 psi Pressure before Seating , 5635 psi Pressure after Seating WG-36-4% (59.9), MO-67-5.8% (3.3), MC S-2510T-3.3% (1.8) Vicon NF-3.8% (7), Losurf 300D-5.1% (5.5) BE-9-6.1% (1.9)

Sundry Number: 62478 API Well Number: 43013522960000

NEWFIELD

Summary Rig Activity

Well Name: Ranch 15-10-3-3-2W-UW

Start Time	End Time	Comment
02:00	05:00	P&P stg #15. RIH with guns and plug to KOP. pumped down guns at 12.3 bpm and 5711 psi, 205 fpm, 933 LTEN, pumped guns to 14,540'. Pulled up and got line tension and set plug. Line tension prior to setting plug 1530, line tension after plug set 1353. Set plug at 14,510'. Plug set time 52 seconds. POOH and perfed at 14,483'-486', 14,406'-409', 14,325'-328'. POOH with tools, max pressure for pump down- 6715 psi. Max rate for pump down- 12.3 bpm. Total bbls pumped- 310 bbls. POH. All tools recovered. All shots fired.
05:00	07:30	Frac stg #15. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water with 0.25% KCl. 2. Calculated 24 holes open, 701 psi perf friction, 376 psi NWB as per FracPro. 3. Had issues with BC-200 during 2 ppg and bucketed it to the blender. Held 2 ppg until issue was resolved. 4. Ran long on 30/50 white. 5. Stage treated well with all proppant placed. Ball Seat Stage Pressures and Rate: 5693 psi @ 14.9 bpm , 5500 psi Pressure before Seating , 5693 psi Pressure after Seating. BC-200-4.7% (7.8), MO-67-4.7% (2.9), Losurf 300D-2.9% (3.3)
07:30	10:00	P&P stg #16. RIH with guns and plug to KOP. pumped down guns at 11.8 bpm and 5275 psi, 240 fpm, 850 LTEN, pumped guns to 14,300'. Pulled up and got line tension and set plug. Line tension prior to setting plug 1700, line tension after plug set 1500. Set plug at 14,300'. Plug set time 45 seconds. POOH and perfed at 14,254'-257', 14,188'-191', 14,116'-119'. POOH with tools, max pressure for pump down- 5610 psi. Max rate for pump down- 12bpm. Total bbls pumped- 253 bbls.
10:00	12:30	Frac stg. #16. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water with 0.25% KCl. 2. Calculated 22 holes open, 623 psi perf friction, 511 psi NWB as per FracPro. 3. Trouble lining out Vicon after swapping totes. 4. No other issues, able to place job completely. Ball Seat Stage Pressures and Rate: 5885 psi @ 15.8 bpm , 5505 psi Pressure before Seating , 5885 psi Pressure after Seating
12:30	15:30	P&P stg #17. RIH with guns and plug to KOP. pumped down guns at 11.9 bpm and 5265 psi, 232 fpm, 892 LTEN, pumped guns to 14,100'. Pulled up and got line tension and set plug. Line tension prior to setting plug 1570, line tension after plug set 1385. Set plug at 14,080'. Plug set time 47 seconds. POOH and perfed at 14,028'-031', 13,946'-949', 13,837'-840'. POOH with tools, max pressure for pump down- 5475 psi. Max rate for pump down- 12.1bpm. Total bbls pumped- 250 bbls.
15:30	17:30	Frac stage #17. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water with 0.25% KCl . 2. Calculated 22 holes open, 634 psi perf friction, 373 psi NWB as per FracPro. 3. Had pressure turn up when 4.0ppg sand reached bottom. Reduced rate to 53bpm, pressure lined out. 4. No other increases in pressure to end of job, able to place completely. Ball Seat Stage Pressures and Rate: 5670 psi @ 15.8 bpm , 5440 psi Pressure before Seating , 5690 psi Pressure after Seating WG-36-2.9% (43.6), Cat 3/4-4.3% (1.6),
17:30	20:30	P&P stg #18. RIH with guns and plug to KOP. pumped down guns at 12.3 bpm and 5367 psi, 230 fpm, 899 LTEN, pumped guns to 13,810'. Pulled up and got line tension and set plug. Line tension prior to setting plug 1658, line tension after plug set 1491. Set plug at 13,785'. Plug set time 52 seconds. POOH and perfed at 13,759'-762', 13,699'-702', 13,608'-611'. POOH with tools, max pressure for pump down- 5450 psi. Max rate for pump down- 12.3 bpm. Total bbls pumped- 250 bbls. POH. All tools recovered. All shots fired.

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Summary Rig Activity

Well Name: Ranch 15-10-3-3-2W-UW

Start Time	End Time	Comment
20:30	22:30	Frac stage #18. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water with 0.25% KCl .2. Calculated 26 holes open, 561 psi perf friction, 458 psi NWB as per FracPro. 3. Stage went well with all proppant placed. 4. Protechnics pumped 15 cups of CFT 2200. Ball Seat Stage Pressures and Rate: 5844 psi @ 14.7 bpm , 5579 psi Pressure before Seating , 5844 psi Pressure after Seating WG-36-2.5% (38.2), BC-200-3.6% (5.4), CL-31-10.8% (2.4) MO-67-6.4% (3.6), MC S-2510T-4.3% (2.2) Vicon NF-4.9% (8.7), Losurf 300D-4.3% (4.5) Cat 3/4-4.3% (1.6), BE-9-3.4% (1.1)
22:30	00:00	P&P stage #19.

Report Start Date	Report End Date	24hr Activity Summary
2/3/2015	2/4/2015	P&P, frac

Start Time	End Time	Comment
00:00	01:00	P&P stg #19. RIH with guns and plug to KOP. pumped down guns at 12.3 bpm and 5367 psi, 230 fpm, 899 LTEN, pumped guns to 13,810'. Pulled up and got line tension and set plug. Line tension prior to setting plug 1658, line tension after plug set 1491. Set plug at 13,785'. Plug set time 52 seconds. POOH and perfed at 13,759'-762', 13,699'-702', 13,608'-611'. POOH with tools, max pressure for pump down- 5450 psi. Max rate for pump down- 12.3 bpm. Total bbls pumped- 250 bbls. POH. All tools recovered. All shots fired.
01:00	04:30	While HES was pressure testing to frac stage #19 they found a 7 1/16 10K flange on the zipper manifold leaking. Notified Weatherford. Weatherford techs arrived on location and replaced ring gasket in 7 1/16" 10K flange. Pressure tested to 9600 psi, held OK.
04:30	07:00	frac stage #19. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water with 0.25% KCl 2. Calculated 24 holes open, 715 psi perf friction, 478 psi NWB as per FracPro 3. Shut down during pad to repair the mountain movers before going to sand 4. Stage treated well with all proppant placed.Ball Seat Stage Pressures and Rate: 5620 psi @ 14.8 bpm , 5398 psi Pressure before Seating , 5620 psi Pressure after Seating. BC-200-3.9% (6.1), CL-31-4.5% (1) MO-67-3.3% (1.9), MC S-2510T-4.5% (2.4) Vicon NF-2.5% (4.5), Losurf 300D-4.5% (4.7) Cat 3/4-3.3% (1.3), BE-9-4.5% (1.4)
07:00	09:30	P&P stg #20. RIH with guns and plug to KOP. pumped down guns at 11.8 bpm and 5908 psi, 240 fpm, 780 LTEN, pumped guns to 13, 285'. Pulled up and got line tension and set plug. Line tension prior to setting plug 1439, line tension after plug set 1250. Set plug at 13,290'. Plug set time 37 seconds. POOH and perfed at 13,266'-269', 13,169'-172', 13,105'-108'. POOH with tools, max pressure for pump down- 6805 psi. Max rate for pump down- 12bpm. Total bbls pumped- 208 bbls.
09:30	15:30	Pumping on the 14-10-3-3-2 trying to get rate to do the pump down. Frac stg #20. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water with 0.25% KCl. 2. Calculated 23 holes open, 565 psi perf friction, 416 psi NWB as per FracPro. 3. Had pressure increase with 4.0ppg on bottom, reduced rate to 55bpm to line out. 4. Pressure came up on flush more than expected but were able to place job completely. Ball Seat Stage Pressures and Rate: 5800 psi @ 15.8 bpm , 5650 psi Pressure before Seating , 5820 psi Pressure after Seating. WG-36-5.4% (81.2), BC-200-3.2% (4.8), FR-76-7.2% (1), FE-2A-7.2% (1), MO-67-3.9% (2.2), MC S-2510T-5.7% (3) Vicon NF-4.4% (7.8), Losurf 300D-3.9% (4) Cat 3/4-4.2% (1.6),

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Summary Rig Activity

Well Name: Ranch 15-10-3-3-2W-UW

Start Time	End Time	Comment
15:30	17:30	P&P stg #21. RIH with guns and plug to KOP. pumped down guns at 11.7 bpm and 5207 psi, 250 fpm, 850 LTEN, pumped guns to 13, 030'. Pulled up and got line tension and set plug. Line tension prior to setting plug 1741, line tension after plug set 1507. Set plug at 13,045'. Plug set time 84 seconds. POOH and perfed at 13,020'-023', 12,951'-954', 12,880'-883'. POOH with tools, max pressure for pump down- 5346 psi. Max rate for pump down- 11.8bpm. Total bbls pumped- 192 bbls.
17:30	20:00	Frac stg. #21. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water with 0.25% KCl . 2. Calculated 25 holes open, 610 psi perf friction, 349 psi NWB as per FracPro. 3. Stage treated well with all proppant placed. 4. Protechnics pumped 16 cups of CFT 2500. Ball Seat Stage Pressures and Rate: 5727 psi @ 14.7 bpm , 5451 psi Pressure before Seating , 5727 psi Pressure after Seating WG-36-4.3% (66.7), BC-200-2.2% (3.4), MO-67-3.4% (2), MC S-2510T-3.9% (2.1)
20:00	23:00	P&P stg #22. RIH with guns and plug to KOP. pumped down guns at 11.7 bpm and 5342 psi, 215 fpm, 204 LTEN, pumped guns to 12,834'. Pulled up and got line tension and set plug. Line tension prior to setting plug 1458, line tension after plug set 1280. Set plug at 12,810'. Plug set time 71 seconds. POOH and perfed at 12,785'-788', 12,690'-693', 12,599'-602'. POOH with tools, max pressure for pump down- 6320 psi. Max rate for pump down- 11.7bpm. Total bbls pumped- 201 bbls. POH. All tools recovered. All shots fired.
23:00	00:00	Grease frac valve.

Report Start Date	Report End Date	24hr Activity Summary
2/4/2015	2/5/2015	P&P, frac

Start Time	End Time	Comment
00:00	02:00	Wait on 14-10-3-3-2W-MW frac.
02:00	04:00	Frac stage #22. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water with 0.25% KCl . 2. Calculated 27 holes open, 447 psi perf friction, 538 psi NWB as per FracPro. 3. Dropped rate during 6 ppg when pressure started turning up. Pressure lined out until CRC hit formation. 4. Dropped rate again with CRC on formation and pressure turned over. 5. Protechnics pumped 15 cups of CFT 2500 MO-67-4.1% (3), Cat 3/4-4% (1.5),
04:00	06:00	P&P stg #23. RIH with guns and plug to KOP. pumped down guns at 12.1 bpm and 5844 psi, 219 fpm, 886 LTEN, pumped guns to 12,588'. Pulled up and got line tension and set plug. Line tension prior to setting plug 1375, line tension after plug set 1185. Set plug at 12,570'. Plug set time 20 seconds. POOH and perfed at 12,515'-518', 12,430'-433', 12,345'-348'. POOH with tools, max pressure for pump down- 6726 psi. Max rate for pump down- 12.3bpm. Total bbls pumped- 185 bbls. POH. All tools recovered. all shots fired.
06:00	09:00	1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water with 0.25% KCl. 2. Calculated 27 holes open, 385 psi perf friction, 379 psi NWB as per FracPro.3. Had extended FET to work on pressure transducers, short in one causing pumps to kick out. 4. Lost MC S-2510 briefly in pad while swapping totes.5. No other issues, able to place job completely. Ball Seat Stage Pressures and Rate: 6000 psi @ 25.2 bpm , 5890 psi Pressure before Seating , 5995 psi Pressure after Seating. WG-36-3.9% (58.6), BC-200-4% (5.9), MO-67-4% (3), MC S-2510T-4.6% (2.4) Losurf 300D-3.1% (3.2) Cat 3/4-4% (1.5), BE-9-4.6% (1.4)

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Summary Rig Activity

Well Name: Ranch 15-10-3-3-2W-UW

Start Time	End Time	Comment
09:00	11:00	P&P stg #24. RIH with guns and plug to KOP. pumped down guns at 11.7 bpm @ 5210 psi, 211 fpm, 946 LTEN, pumped guns to 12,286'. Pulled up and got line tension and set plug. Line tension prior to setting plug 1477, line tension after plug set 1284. Set plug at 12,280'. Plug set time 49 seconds. POOH and perfed at 12,255'-258', 12,184'-187', 12,095'-098'. POOH with tools, max pressure for pump down- 5210 psi. Max rate for pump down- 11.9bpm. Total bbls pumped- 147 bbls.
11:00	14:00	Frac stg #24 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water with 0.25% KCl. 2. Calculated 23 holes open, 598 psi perf friction, 319 psi NWB as per FracPro. 3. Briefly lost CAT 3/4 in 4.0ppg sand stage, didn't get tote swapped on time. 4. No other issues, able to place job completely. Ball Seat Stage Pressures and Rate: 5600 psi @ 14.7 bpm , 5305 psi Pressure before Seating , 56200 psi Pressure after Seating. WG-36-9.8% (152.1), BC-200-3.5% (5.4), MC S-2510T-4% (2.1) Vicon NF-3.6% (6.5), Cat 3/4-3% (1.2),
14:00	16:00	Wireline shut down due to high winds 35-45 MPH
16:00	19:00	Current Operations: P&P stg #25. RIH with guns and plug to KOP. pumped down guns at 11.8 bpm @ 5232 psi, 252 fpm, 864 LTEN, pumped guns to 12,100'. Pulled up and got line tension and set plug. Line tension prior to setting plug 1388, line tension after plug set 1220. Set plug at 12,070'. Plug set time 26 seconds. POOH and perfed at 12,018'-021', 11,940'-943', 11,865'-868'. POOH with tools, max pressure for pump down- 5270 psi. Max rate for pump down- 11.8bpm. Total bbls pumped- 139 bbls. POH. All tools recovered. All shots fired.
19:00	20:00	Grease frac valves.
20:00	22:00	Wait on UT14-10-3-3-2W-MW frac.
22:00	00:00	Frac stage #25. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water with 0.25% KCl .2. Calculated 25 holes open, 628 psi perf friction, 184 psi NWB as per FracPro. 3. Stage went well with all proppant placed. Ball Seat Stage Pressures and Rate: 5467 psi @ 14.7 bpm , 5327 psi Pressure before Seating , 5467 psi Pressure after Seating WG-36-3% (44.9), Vicon NF-4.7% (8.3), Losurf 300D-2.5% (2.6)

Report Start Date	Report End Date	24hr Activity Summary
2/5/2015	2/6/2015	P&P, frac

Start Time	End Time	Comment
00:00	01:00	Wait on UT 14-10-3-3-2W-MW P&P.
01:00	03:30	P&P stg #26. RIH with guns and plug to KOP. pumped down guns at 12 bpm @ 55378 psi, 230 fpm, 892 LTEN, pumped guns to 11.850'. Pulled up and got line tension and set plug. Line tension prior to setting plug 1370, line tension after plug set 1200. Set plug at 11,834'. Plug set time 56 seconds. POOH and perfed at 11,785'-787', 11,715'-718', 11,619'-621'. POOH with tools, max pressure for pump down- 5494 psi. Max rate for pump down- 12.2 bpm. Total bbls pumped- 131 bbls. POH. All tools recovered. All shots fired.
03:30	05:00	Wait on UT 14-10-3-3-2W-MW frac.
05:00	07:00	Frac stg #26. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water with 0.25% KCl. 2. Calculated 26 holes open, 585 psi perf friction, 401 psi NWB as per FracPro. 3. Stage went well with all proppant placed. Ball Seat Stage Pressures and Rate: 5421 psi @ 14.7 bpm , 5197 psi Pressure before Seating , 5421 psi Pressure after Seating. BC-200-3.7% (5.7). MO-67-2.4% (1.8), MC S-2510T-3.4% (1.7) Vicon NF-3.6% (6.3), Losurf 300D-4.6% (4.6) Cat 3/4-2.9% (1.1), BE-9-3.9% (1.2)

Sundry Number: 62478 API Well Number: 43013522960000

Start Time	End Time	Comment
07:00	09:00	P&P stg #27. RIH with guns and plug to KOP. Pumped down guns at 11.7 bpm @ 5386 psi, 260 fpm, 835 LTEN, Pumped guns to 11,565'. Pulled up and got line tension and set plug. Line tension prior to setting plug 1450, line tension after plug set 1220. Set plug at 11,585'. Plug set time 40 seconds. POOH and perfed at 11,531'-534', 11,461'-464', 11,375'-378'. POOH with tools, max pressure for pump down- 11.8 bpm. Total bbls pumped- 122 bbls.
09:00	11:30	Frac stg #27 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water with 0.25% KCl 2. Calculated 25 holes open, 473 psi perf friction, 273 psi NWB as per FracPro 3. Good job with no issues, placed completely. Ball Seat Stage Pressures and Rate: 5490 psi @ 15.1 bpm , 5345 psi Pressure before Seating , 5490 psi Pressure after Seating. WG-36-5% (75.5), BC-200-4.9% (7.4), CL-31-4.8% (1.1) MO-67-4.4% (2.5), MC S-2510T-4.1% (2.1) Losurf 300D-2.8% (2.8) Cat 3/4-3.6% (1.3), BE-9-4.8% (1.5)
11:30	14:00	P&P stg #28. RIH with guns and plug to KOP. Pumped down guns at 11.8 bpm @ 5245 psi, 275 fpm, 900 LTEN, Pumped guns to 11,280'. Pulled up and got line tension and set plug. Line tension prior to setting plug 1280, line tension after plug set 1130. Set plug at 11,300'. Plug set time 86 seconds. POOH and perfed at 11,277'-280', 11,187'-190', 11,104'-107'. POOH with tools, max pressure for pump down- 5301 psi. Max rate for pump down- 11.8 bpm. Total bbls pumped- 107 bbls.
14:00	18:30	Down to repair HES computer.
18:30	22:00	Wait on UT 14-10-3-3-2W-MW stage #24 frac then frac stage #28 on the Ranch.
22:00	00:00	Frac stage #28. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water with 0.25% KCl .2. Calculated 22 holes open, 795 psi perf friction, 494 psi NWB as per FracPro. 3. Stage treated well with all proppant placed. 4. Protechnics pumped 14 cups of CFT 4000. Ball Seat Stage Pressures and Rate: 5544 psi @ 14.7 bpm , 5329 psi Pressure before Seating , 5544 psi Pressure after Seating WG-36-2.6% (39.3), BC-200-2.6% (3.9), MC S-2510T-4.8% (2.4) Vicon NF-4.3% (7.6), Cat 3/4-3.9% (1.5), BE-9-7.5% (2.3)

Report Start Date	Report End Date	24hr Activity Summary
2/6/2015	2/7/2015	P&P, frac

Start Time	End Time	Comment
00:00	02:00	Current Operations: P&P stg #29. RIH with guns and plug to KOP. Pumped down guns at 12.2 bpm @ 5280 psi, 241 fpm, 940 LTEN, Pumped guns to 11,082'. Pulled up and got line tension and set plug. Line tension prior to setting plug 1252, line tension after plug set 1096. Set plug at 11,070'. Plug set time 18 seconds. POOH and perfed at 11,024'-027', 10,950'-953', 10,868'-871'. POOH with tools, max pressure for pump down- 5388 psi. Max rate for pump down- 12.4 bpm. Total bbls pumped- 190 bbls. POH. All tools recovered. All shots fired.
02:00	04:00	Wait while frac stage #25 on UT 14-10-3-3-2W-MW.
04:00	04:30	Grease frac tree.
04:30	06:00	Frac stage #29.1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water with 0.25% KCl. 2. Calculated 25 holes open, 625 psi perf friction, 183 psi NWB as per FracPro. 3. Stage went well with all proppant placed. Ball Seat Stage Pressures and Rate: 5437 psi @ 14.7 bpm , 5282 psi Pressure before Seating , 5437 psi Pressure after Seating. WG-36-2.9% (43.9), BC-200-2.1% (3.1), CL-31-6.6% (1.5) FE -2A-9.3% (1.1), Vicon NF-2.5% (4.4), Cat 3/4-3.9% (1.5),

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NEWFIELD

Summary Rig Activity

Well Name: Ranch 15-10-3-3-2W-UW

Start Time	End Time	Comment
06:00	08:00	P&P stg #30. RIH with guns and plug to KOP. Pumped down guns at 11.8 bpm @ 5398 psi, 220 fpm, 860 LTEN, Pumped guns to 11,785'. Pulled up and got line tension and set plug. Line tension prior to setting plug 1240, line tension after plug set 1095. Set plug at 11,790'. Plug set time 45 seconds. POOH and perfed at 10,775'-778', 10,704'-707', 10,635'-638'. POOH with tools, max pressure for pump down- 5408 psi. Max rate for pump down- 11.8 bpm. Total bbls pumped- 74 bbls.
08:00	11:30	Frac stg. #30. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water with 0.25% KCl. 2. Calculated 25 holes open, 473 psi perf friction, 314 psi NWB as per FracPro. WG-36-3.5% (58.4), FR-76-17.5% (2.1), CL-31-6.7% (1.5) Vicon NF-3.2% (5.5), Losurf 300D-2.2% (2.2) Cat 3/4-4% (1.5),
11:30	15:30	We RIH on stg #31 P&P. We lost weight at 7650' in the hole. Started losing weight again at 7812' slowed down and lost weight at 7850'. We made the decision to pull up and see what are weight would be like pulling up the hole. It looked like we were dragging something up the hole. So, we decided at that point to POOH and look at the plug and tool string. We POOH and the plug and tool string looked good. We are going to pump a sweep on the well and RIH to P&P stg. #31. P&P stg #31. RIH with guns and plug to KOP. Pumped down guns at 11.8 bpm @ 4860 psi, 270 fpm, 939 LTEN, Pumped guns to 10,540'. Pulled up and got line tension and set plug. Line tension prior to setting plug 1318, line tension after plug set 1146. Set plug at 10,545'. Plug set time 23 seconds. POOH and perfed at 10,520'-523', 10,427'-430', 10,348'-351'. POOH with tools, max pressure for pump down- 4860 psi. Max rate for pump down- 11.8 bpm. Total bbls pumped- 66 bbls.
15:30	20:00	Weatherford's HCR valve leaking. Repair valve. Test valve to Newfield's standards, 200 low. 10K high.
20:00	23:00	Frac UT 14-10-3-3-2W-MW.
23:00	00:00	Frac srage #31.

Report Start Date	Report End Date	24hr Activity Summary
2/7/2015	2/8/2015	P&P, frac

Start Time	End Time	Comment
00:00	02:30	Frac stage #31. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water with 0.25% KCl .2. Calculated 24 holes open, 680 psi perf friction, 13 psi NWB as per FracPro. 3. Swept well before pumping guns down. 4. Stage went well with all proppant placed. 5. Protechnics pumped 15 cups of CFT 4000. Ball Seat Stage Pressures and Rate: 5123 psi @ 13.7 bpm , 5005 psi Pressure before Seating , 5123 psi Pressure after Seating WG-36-10.9% (165), BC-200-4.2% (6.3), MO-67-2.7% (1.5), Losurf 300D-3.6% (4) Cat 3/4-2.7% (1.5),
02:30	04:30	P&P stg #32. RIH with guns and plug to KOP. Pumped down guns at 12.1 bpm @ 4846 psi, 254 fpm, 987 LTEN, Pumped guns to 10,356'. Pulled up and got line tension and set plug. Line tension prior to setting plug 1228, line tension after plug set 1090. Set plug at 10,330'. Plug set time 24 seconds. POOH and perfed at 10,289'-292', 10,220'-223', 10,122'-125'. POOH with tools, max pressure for pump down- 4968 psi. Max rate for pump down- 12.2 bpm. Total bbls pumped- 54 bbls. POH. All tools recovered. All shots fired.
04:30	05:30	Wait on UT 14-10-3-3-2W-MW frac.
05:30	07:00	Frac stage #32. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water with 0.25% KCl .2. Calculated 23 holes open, 708 psi perf friction, 56 psi NWB as per FracPro.3. Lost a pump during the 1 ppg stage. Got back up to rate at the end of the 2 ppg stage.4. Stage treated well with all proppant placed. Ball Seat Stage Pressures and Rate: 5209 psi @ 14.8 bpm , 5069 psi Pressure before Seating , 5209 psi Pressure after Seating. WG-36-3% (45.1), MO-67-2.9% (1.6), Vicon NF-2.1% (3.6), Cat 3/4-4.2% (2.4),

Sundry Number: 62478 API Well Number: 43013522960000

NEWFIELD

Summary Rig Activity

Well Name: Ranch 15-10-3-3-2W-UW

Start Time	End Time	Comment
07:00	09:00	P&P stg #33. RIH with guns and plug to KOP. Pumped down guns at 11.6 bpm @ 4930 psi, 260 fpm, 900 LTEN, Pumped guns to 10,089'. Pulled up and got line tension and set plug. Line tension prior to setting plug 1140, line tension after plug set 1020. Set plug at 10,085'. Plug set time 22 seconds. POOH and perfed at 10,040'-043', 9,925'-928', 9,840'-843'. POOH with tools, max pressure for pump down- 4933 psi. Max rate for pump down- 11.7 bpm. Total bbls pumped- 56 bbls.
09:00	10:30	1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water with 0.25% KCl. 2. Calculated 22 holes open, 633 psi perf friction, 314 psi NWB as per FracPro. 3. Stage went well. WG-36-16.7% (249.9), FR-76-10.1% (1.1), CL-31-6.7% (1.5) MO-67-3.2% (1.8), MC S-2510T-4.2% (2) Vicon NF-4.3% (7.4).
10:30	12:30	P&P stg #34. RIH with guns and plug to KOP. Pumped down guns at 11.7 bpm @ 4758 psi, 250 fpm, 950 LTEN, Pumped guns to 9,830'. Pulled up and got line tension and set plug. Line tension prior to setting plug 1225, line tension after plug set 1075. Set plug at 9826'. Plug set time 57 seconds. POOH and perfed at 9,791'-794', 9,737'-740', 9,680'-683'. POOH with tools, max pressure for pump down- 4758 psi. Max rate for pump down- 11.8bpm. Total bbls pumped- 35 bbls.
12:30	15:30	Frac stg #34. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water with 0.25% KCl. 2. Calculated 22 holes open, 631 psi perf friction, 398 psi NWB as per FracPro. 3. Last stage on well. Did no pump any chemicals through flush. 4. 15.5 cups CFT 4000. WG-36-16.7% (241.1), BC-200-2.6% (3.8), CL-31-5.9% (1.3) MO-67-6.8% (3.7), MC S-2510T-6.7% (2.8) Vicon NF-4.2% (6.6), Losurf 300D-2.8% (2.4) Cat 3/4-7.7% (2.8), BE-9-6.7% (1.7)
15:30	00:00	Well SI. Wait on UT 14-10-3-3-2W-MW frac.

Report Start Date	Report End Date	24hr Activity Summary
2/8/2015	2/9/2015	Wait on UT 14-10-3-3-2W-MW frac

Start Time	End Time	Comment
00:00	00:00	Well SI. Wait on UT 14-10-3-3-2W-MW frac.

Report Start Date	Report End Date	24hr Activity Summary
2/9/2015	2/10/2015	Wait on UT 14-10-3-3-2W-MW frac

Start Time	End Time	Comment
00:00	12:00	Shut well in, wating on frac to complete on UT 14-10-3-3-2W-MW
12:00	00:00	RD frac crew and release equipment

Report Start Date	Report End Date	24hr Activity Summary
2/10/2015	2/11/2015	ND frac stack, install night cap

Start Time	End Time	Comment
00:00	00:00	ND frac stack, install night cap, continue to clean location and release equipment., Well shut in

Report Start Date	Report End Date	24hr Activity Summary
2/11/2015	2/12/2015	Well shut in

Start Time	End Time	Comment
00:00	00:00	Well shut in

Report Start Date	Report End Date	24hr Activity Summary
2/12/2015	2/13/2015	Well shut in

Start Time	End Time	Comment
00:00	00:00	Well shut in

Report Start Date	Report End Date	24hr Activity Summary
2/13/2015	2/14/2015	Well shut in

Sundry Number: 62478 API Well Number: 43013522960000

NEWFIELD

Summary Rig Activity

Well Name: Ranch 15-10-3-3-2W-UW

Start Time	End Time	Comment
00:00	00:00	Well shut in, Monitor pressure during UT 13-10-3-3-2 frac. 8:43AM 3910.77 PSI

Report Start Date	Report End Date	24hr Activity Summary
2/14/2015	2/15/2015	Well shut in

Start Time	End Time	Comment
00:00	00:00	Well shut in, Monitor pressure during UT 13-10-3-3-2 frac. 7:02 AM 3890.20 PSI

Report Start Date	Report End Date	24hr Activity Summary
2/15/2015	2/16/2015	Well shut in

Start Time	End Time	Comment
00:00	00:00	Well shut in, Monitor pressure during UT 13-10-3-3-2 frac.

Report Start Date	Report End Date	24hr Activity Summary
2/16/2015	2/17/2015	Well shut in

Start Time	End Time	Comment
00:00	00:00	Well shut in, Monitor pressure during UT 13-10-3-3-2 frac. 8:00 AM - 3934.53 PSI

Report Start Date	Report End Date	24hr Activity Summary
2/17/2015	2/18/2015	Well shut in

Start Time	End Time	Comment
00:00	00:00	Well shut in, Monitor pressure during UT 13-10-3-3-2 frac. 8:00 AM - 3959.51 PSI

Report Start Date	Report End Date	24hr Activity Summary
2/18/2015	2/19/2015	Well shut in

Start Time	End Time	Comment
00:00	00:00	Well shut in, Monitor pressure during UT 13-10-3-3-2 frac. 8:00 AM - 3946.68PSI

Report Start Date	Report End Date	24hr Activity Summary
2/19/2015	2/20/2015	Well shut in

Start Time	End Time	Comment
00:00	00:00	Well shut in, Monitor pressure during UT 13-10-3-3-2 frac. 2:00 PM - 3936.56 PSI

Report Start Date	Report End Date	24hr Activity Summary
2/20/2015	2/21/2015	Well shut in

Start Time	End Time	Comment
00:00	00:00	Well shut in, Monitor pressure during UT 13-10-3-3-2 frac. 2:00 PM - 3920.55 PSI

Report Start Date	Report End Date	24hr Activity Summary
2/21/2015	2/22/2015	Well shut in

Start Time	End Time	Comment
00:00	00:00	Well shut in, Monitor pressure during UT 13-10-3-3-2 frac. 2:00 PM - 3913.68 PSI 87% battery

Report Start Date	Report End Date	24hr Activity Summary
2/22/2015	2/23/2015	POP Well

Start Time	End Time	Comment
00:00	12:00	Well shut in, Monitor pressure during UT 13-10-3-3-2 frac.
12:00	18:00	POP well on 2/22/2015 at 6:00 pm with 3884 psi on 6/64. Turn well over to production.

Sundry Number: 62478 API Well Number: 43013522960000

NEWFIELD

Directional Survey

Legal Well Name	Wellbore Name
Ranch 15-10-3-3-2W-UW	Original Hole

API/UWI	Surface Legal Location	Field Name	Well Type	Well Configuration Type
43013522960000	SWSE 368FSL 2311FEL SEC10 T3S R2W MERU	UINTA CB-WASATCH HORZ	Development	Horizontal

Well RC	County	State/Province	Spud Date	Final Rig Release Date
500378194	Duchesne	Utah	9/24/2014 06:00	12/22/2014 16:00

Actual Deviation Survey	Wellbore Name	Parent Wellbore	Job	VS Dir (°)	Profile Type	Kick Off Depth (ftKB)
Actual, Proposed? No	Original Hole		Drilling - Original, 8/27/2014 00:00		Directional	8,570

Date	Definitive?	Description	Proposed?
9/10/2014	No	Actual	No

MD Tie In (ftKB)	TVDTie In (ftKB)	Inclination Tie In (°)	Azimuth Tie In (°)	NSTie In (ft)	EWTie In (ft)

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)	Unwrap Displace (ft)	Method	Survey Company
10/11/2014				0	0	0	0	0.00	0.00	0.00	0.00	MWD	Weatherford
9/11/2014	0	0.00	0.00	0	0	0	0	0.00	0.00	0.00	0.00	MWD	Payzone
9/10/2014	176	0.00	102.05	176	0	0	0	0.00	0.00	57.98	0.00	MWD	Payzone
9/10/2014	207	0.31	66.32	207	0	0	0	1.00	1.00	-115.26	0.08	MWD	Payzone
9/10/2014	236	0.13	93.26	236	0	0	0	0.70	-0.62	92.90	0.19	MWD	Payzone
9/10/2014	263	0.16	66.89	263	0	0	0	0.27	0.11	-97.67	0.26	MWD	Payzone
9/10/2014	291	0.40	31.73	291	0	0	0	1.02	0.86	-125.57	0.39	MWD	Payzone
9/10/2014	319	0.62	48.30	319	0	0	0	0.94	0.79	59.18	0.64	MWD	Payzone
9/10/2014	348	0.31	64.47	348	1	0	1	1.15	-1.07	55.76	0.87	MWD	Payzone
9/10/2014	376	0.62	47.29	376	1	1	1	1.20	1.11	-61.36	1.10	MWD	Payzone
9/10/2014	403	0.48	57.53	403	1	1	1	0.63	-0.52	37.93	1.35	MWD	Payzone
9/10/2014	431	0.81	69.09	431	1	1	1	1.26	1.18	41.29	1.67	MWD	Payzone
9/10/2014	463	0.57	82.40	463	1	1	2	0.90	-0.75	41.59	2.05	MWD	Payzone
9/10/2014	493	0.88	67.33	493	1	1	2	1.20	1.03	-50.23	2.43	MWD	Payzone
9/10/2014	523	0.57	94.93	523	1	1	2	1.53	-1.03	92.00	2.80	MWD	Payzone
9/10/2014	553	1.01	97.08	553	1	1	3	1.47	1.47	7.17	3.21	MWD	Payzone
9/10/2014	583	1.38	117.27	583	1	1	3	1.85	1.23	67.30	3.83	MWD	Payzone
9/10/2014	613	1.41	125.91	613	1	1	4	0.71	0.10	28.80	4.55	MWD	Payzone
9/10/2014	643	1.36	124.59	643	0	0	5	0.20	-0.17	-4.40	5.28	MWD	Payzone
9/10/2014	673	1.19	115.71	673	0	0	5	0.87	-0.57	-29.60	5.94	MWD	Payzone
9/10/2014	703	1.10	126.17	703	0	0	6	0.76	-0.30	34.87	6.54	MWD	Payzone
9/10/2014	733	1.01	106.44	733	-1	-1	6	1.24	-0.30	-65.77	7.09	MWD	Payzone
9/10/2014	763	0.53	122.57	763	-1	-1	7	1.74	-1.60	53.77	7.49	MWD	Payzone
9/10/2014	793	0.57	100.68	793	-1	-1	7	0.71	0.13	-72.97	7.77	MWD	Payzone
9/10/2014	823	0.40	114.35	823	-1	-1	7	0.68	-0.57	45.57	8.02	MWD	Payzone
9/10/2014	853	0.44	127.05	853	-1	-1	7	0.34	0.13	42.33	8.24	MWD	Payzone
9/10/2014	883	0.76	130.72	883	-1	-1	8	1.07	1.07	12.23	8.55	MWD	Payzone
9/11/2014	913	0.62	127.49	913	-1	-2	8	0.48	-0.47	-10.77	8.91	MWD	Payzone
9/11/2014	943	0.79	120.90	943	-2	-2	8	0.63	0.57	-21.97	9.28	MWD	Payzone
9/11/2014	973	0.79	93.04	973	-2	-2	8	1.27	0.00	-92.87	9.68	MWD	Payzone
9/11/2014	1,003	0.75	79.46	1,003	-2	-2	9	0.62	-0.13	-45.27	10.08	MWD	Payzone
9/11/2014	1,033	0.92	85.79	1,033	-2	-2	9	0.64	0.57	21.10	10.52	MWD	Payzone
9/11/2014	1,063	0.75	67.77	1,063	-1	-2	10	1.04	-0.57	-60.07	10.95	MWD	Payzone
9/11/2014	1,093	0.93	74.37	1,093	-1	-2	10	0.68	0.60	22.00	11.39	MWD	Payzone
9/11/2014	1,123	0.62	85.57	1,123	-1	-2	11	1.15	-1.03	37.33	11.80	MWD	Payzone
9/11/2014	1,153	0.38	54.14	1,153	-1	-1	11	1.19	-0.80	-104.77	12.05	MWD	Payzone
9/11/2014	1,183	0.57	12.93	1,183	-1	-1	11	1.26	0.63	-137.37	12.28	MWD	Payzone
9/11/2014	1,213	0.66	7.70	1,213	-1	-1	11	0.35	0.30	-17.43	12.60	MWD	Payzone
9/11/2014	1,243	0.79	349.46	1,243	0	-1	11	0.88	0.43	1139.20	12.98	MWD	Payzone
9/11/2014	1,273	0.65	336.65	1,273	0	0	11	0.71	-0.47	-42.70	13.35	MWD	Payzone
9/11/2014	1,303	0.79	338.30	1,303	1	0	11	0.47	0.47	5.50	13.73	MWD	Payzone
9/11/2014	1,333	1.14	327.09	1,333	1	1	10	1.32	1.17	-37.37	14.23	MWD	Payzone
9/11/2014	1,363	1.32	338.34	1,363	2	1	10	1.00	0.60	37.50	14.87	MWD	Payzone
9/11/2014	1,393	1.45	329.07	1,393	2	2	10	0.86	0.43	-30.90	15.60	MWD	Payzone
9/11/2014	1,423	1.05	325.46	1,423	3	2	10	1.36	-1.33	-12.03	16.25	MWD	Payzone
9/11/2014	1,453	1.23	323.22	1,453	3	3	9	0.62	0.60	-7.47	16.85	MWD	Payzone
9/11/2014	1,483	0.92	325.16	1,483	4	3	9	1.04	-1.03	6.47	17.41	MWD	Payzone
9/11/2014	1,513	0.62	319.27	1,513	4	4	9	1.03	-1.00	-19.63	17.81	MWD	Payzone

NEWFIELD

Directional Survey

Legal Well Name	Wellbore Name
Ranch 15-10-3-3-2W-UW	Original Hole

API/UWI	Surface Legal Location	Field Name	Well Type	Well Configuration Type
43013522960000	SWSE 368FSL 2311FEL SEC10 T3S R2W MERU	UINTA CB-WASATCH HORZ	Development	Horizontal

Well RC	County	State/Province	Spud Date	Final Rig Release Date
500378194	Duchesne	Utah	9/24/2014 06:00	12/22/2014 16:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)	Unwrap Displace (ft)	Method	Survey Company
9/11/2014	1,543	0.35	353.41	1,543	4	4	8	1.28	-0.90	113.80	18.06	MWD	Payzone
10/5/2014	1,573	0.04	226.85	1,573	4	4	8	1.25	-1.03	-421.87	18.14	MWD	Weatherford
10/5/2014	1,757	0.99	126.60	1,757	3	3	10	0.54	0.52	-54.48	19.72	MWD	Weatherford
10/5/2014	1,851	0.94	126.39	1,851	2	2	11	0.05	-0.05	-0.22	21.30	MWD	Weatherford
10/5/2014	1,945	0.95	129.45	1,945	1	1	12	0.05	0.01	3.26	22.85	MWD	Weatherford
10/5/2014	2,038	0.99	130.62	2,038	0	0	13	0.05	0.04	1.26	24.43	MWD	Weatherford
10/5/2014	2,132	1.01	135.02	2,132	-1	-1	15	0.08	0.02	4.68	26.07	MWD	Weatherford
10/5/2014	2,226	0.80	145.87	2,226	-2	-2	16	0.29	-0.22	11.54	27.55	MWD	Weatherford
10/5/2014	2,319	1.04	142.11	2,319	-3	-3	16	0.27	0.26	-4.04	29.04	MWD	Weatherford
10/5/2014	2,413	1.00	142.70	2,413	-4	-5	17	0.04	-0.04	0.63	30.71	MWD	Weatherford
10/5/2014	2,506	1.13	141.84	2,506	-6	-6	19	0.14	0.14	-0.92	32.44	MWD	Weatherford
10/5/2014	2,600	1.19	146.05	2,600	-7	-8	20	0.11	0.06	4.48	34.34	MWD	Weatherford
10/5/2014	2,694	1.14	146.40	2,694	-9	-9	21	0.05	-0.05	0.37	36.25	MWD	Weatherford
10/5/2014	2,787	1.24	141.52	2,787	-10	-11	22	0.15	0.11	-5.25	38.18	MWD	Weatherford
10/5/2014	2,881	1.19	142.98	2,881	-12	-12	23	0.06	-0.05	1.55	40.18	MWD	Weatherford
10/5/2014	2,975	1.17	143.03	2,975	-13	-14	24	0.02	-0.02	0.05	42.11	MWD	Weatherford
10/5/2014	3,068	1.17	144.06	3,068	-15	-15	25	0.02	0.00	1.11	44.01	MWD	Weatherford
10/5/2014	3,162	1.17	138.80	3,162	-16	-17	27	0.11	0.00	-5.60	45.93	MWD	Weatherford
10/5/2014	3,255	1.30	141.05	3,255	-18	-18	28	0.15	0.14	2.42	47.93	MWD	Weatherford
10/5/2014	3,349	1.19	146.12	3,349	-19	-20	29	0.17	-0.12	5.39	49.97	MWD	Weatherford
10/6/2014	3,443	1.30	151.33	3,443	-21	-22	30	0.17	0.12	5.54	52.01	MWD	Weatherford
10/6/2014	3,536	1.29	152.15	3,536	-23	-24	31	0.02	-0.01	0.88	54.11	MWD	Weatherford
10/6/2014	3,630	1.26	152.84	3,629	-25	-26	32	0.04	-0.03	0.73	56.21	MWD	Weatherford
10/6/2014	3,724	1.33	157.32	3,723	-26	-27	33	0.13	0.07	4.77	58.33	MWD	Weatherford
10/6/2014	3,817	1.31	155.35	3,816	-28	-29	34	0.05	-0.02	-2.12	60.47	MWD	Weatherford
10/6/2014	3,911	1.26	157.78	3,910	-30	-31	35	0.08	-0.05	2.59	62.58	MWD	Weatherford
10/6/2014	4,004	1.36	163.38	4,003	-32	-33	35	0.17	0.11	6.02	64.70	MWD	Weatherford
10/6/2014	4,098	1.26	165.45	4,097	-34	-35	36	0.12	-0.11	2.20	66.85	MWD	Weatherford
10/6/2014	4,192	1.25	168.30	4,191	-36	-37	36	0.07	-0.01	3.03	68.91	MWD	Weatherford
10/6/2014	4,285	1.29	167.54	4,284	-38	-39	37	0.05	0.04	-0.82	70.97	MWD	Weatherford
10/6/2014	4,379	1.20	171.88	4,378	-40	-41	37	0.14	-0.10	4.62	73.01	MWD	Weatherford
10/6/2014	4,473	1.25	167.88	4,472	-42	-43	38	0.11	0.05	-4.26	75.02	MWD	Weatherford
10/6/2014	4,566	1.22	173.48	4,565	-44	-45	38	0.13	-0.03	6.02	77.02	MWD	Weatherford
10/6/2014	4,660	1.25	171.03	4,659	-46	-47	38	0.06	0.03	-2.61	79.05	MWD	Weatherford
10/6/2014	4,754	1.28	174.77	4,753	-48	-50	38	0.09	0.03	3.98	81.12	MWD	Weatherford
10/6/2014	4,847	1.34	182.58	4,846	-50	-52	38	0.20	0.06	8.40	83.24	MWD	Weatherford
10/6/2014	4,941	1.36	179.18	4,940	-53	-54	38	0.09	0.02	-3.62	85.46	MWD	Weatherford
10/6/2014	5,035	1.34	183.26	5,034	-55	-56	38	0.10	-0.02	4.34	87.67	MWD	Weatherford
10/6/2014	5,128	1.48	178.71	5,127	-57	-58	38	0.19	0.15	-4.89	89.96	MWD	Weatherford
10/6/2014	5,222	1.47	177.36	5,221	-59	-61	38	0.04	-0.01	-1.44	92.38	MWD	Weatherford
10/6/2014	5,316	2.06	162.56	5,315	-62	-64	39	0.79	0.63	-15.74	95.25	MWD	Weatherford
10/6/2014	5,409	4.04	161.38	5,408	-67	-68	41	2.13	2.13	-1.27	100.20	MWD	Weatherford
10/7/2014	5,503	5.03	154.57	5,502	-74	-75	43	1.20	1.05	-7.24	107.61	MWD	Weatherford
10/7/2014	5,597	5.96	149.11	5,595	-81	-83	48	1.13	0.99	-5.81	116.61	MWD	Weatherford
10/7/2014	5,690	6.01	146.29	5,688	-89	-91	53	0.32	0.05	-3.03	126.30	MWD	Weatherford
10/7/2014	5,784	7.00	148.14	5,781	-98	-100	59	1.08	1.05	1.97	136.95	MWD	Weatherford
10/7/2014	5,971	6.67	149.25	5,967	-117	-119	70	0.19	-0.18	0.59	159.20	MWD	Weatherford
10/7/2014	6,065	7.45	151.67	6,060	-127	-129	76	0.89	0.83	2.57	170.75	MWD	Weatherford
10/7/2014	6,159	7.08	152.88	6,153	-137	-140	81	0.43	-0.39	1.29	182.64	MWD	Weatherford
10/7/2014	6,252	6.73	153.99	6,246	-147	-150	86	0.40	-0.38	1.19	193.82	MWD	Weatherford
10/8/2014	6,346	7.00	151.60	6,339	-157	-160	91	0.42	0.29	-2.54	205.05	MWD	Weatherford
10/8/2014	6,439	6.95	151.84	6,431	-166	-170	97	0.06	-0.05	0.26	216.35	MWD	Weatherford
10/8/2014	6,533	6.34	153.02	6,525	-176	-179	102	0.66	-0.65	1.26	227.22	MWD	Weatherford

NEWFIELD

Directional Survey

Legal Well Name	Wellbore Name
Ranch 15-10-3-3-2W-UW	Original Hole

API/UWI	Surface Legal Location	Field Name	Well Type	Well Configuration Type
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Survey Data

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10/8/2014	6,626	6.87	149.66	6,617	-185	-189	107	0.71	0.57	-3.61	237.92	MWD	Weatherford
10/8/2014	6,720	6.83	147.46	6,710	-195	-198	113	0.28	-0.04	-2.34	249.12	MWD	Weatherford
10/8/2014	6,814	6.46	147.85	6,804	-204	-207	119	0.40	-0.39	0.41	260.00	MWD	Weatherford
10/8/2014	6,907	7.26	147.08	6,896	-213	-217	125	0.87	0.86	-0.83	271.11	MWD	Weatherford
10/8/2014	7,001	7.28	147.57	6,989	-222	-227	131	0.07	0.02	0.52	283.01	MWD	Weatherford
10/8/2014	7,094	6.98	149.13	7,082	-232	-237	137	0.38	-0.32	1.68	294.55	MWD	Weatherford
10/8/2014	7,190	7.88	148.43	7,177	-243	-247	144	0.94	0.94	-0.73	306.96	MWD	Weatherford
10/10/2014	7,284	7.79	149.10	7,270	-253	-258	150	0.14	-0.10	0.71	319.77	MWD	Weatherford
10/10/2014	7,377	7.01	148.91	7,362	-263	-269	156	0.84	-0.84	-0.20	331.75	MWD	Weatherford
10/10/2014	7,471	7.47	147.46	7,455	-273	-279	163	0.53	0.49	-1.54	343.60	MWD	Weatherford
10/10/2014	7,564	7.51	150.42	7,548	-283	-289	169	0.42	0.04	3.18	355.72	MWD	Weatherford
10/10/2014	7,658	7.09	151.26	7,641	-294	-299	175	0.46	-0.45	0.89	367.66	MWD	Weatherford
10/11/2014	7,752	7.01	154.70	7,734	-304	-310	180	0.46	-0.09	3.66	379.19	MWD	Weatherford
10/11/2014	7,845	6.80	151.59	7,826	-313	-320	185	0.46	-0.23	-3.34	390.37	MWD	Weatherford
10/11/2014	7,939	6.40	153.48	7,920	-323	-329	190	0.48	-0.43	2.01	401.17	MWD	Weatherford
10/11/2014	8,032	6.91	148.38	8,012	-332	-339	195	0.84	0.55	-5.48	411.94	MWD	Weatherford
10/11/2014	8,127	6.86	149.12	8,106	-342	-348	201	0.11	-0.05	0.78	423.33	MWD	Weatherford
10/11/2014	8,219	6.76	145.50	8,198	-351	-358	207	0.48	-0.11	-3.93	434.23	MWD	Weatherford
10/11/2014	8,313	5.77	125.84	8,291	-358	-365	214	2.50	-1.05	-20.91	444.34	MWD	Weatherford
10/11/2014	8,407	6.26	116.88	8,385	-363	-370	222	1.13	0.52	-9.53	454.16	MWD	Weatherford
10/11/2014	8,483	6.01	113.15	8,460	-366	-373	230	0.62	-0.33	-4.91	462.28	MWD	Weatherford
10/11/2014	8,563	6.35	109.43	8,540	-369	-377	238	0.66	0.43	-4.65	470.89	MWD	Weatherford
10/11/2014	8,595	7.42	99.41	8,572	-369	-377	241	5.02	3.34	-31.31	474.71	MWD	Weatherford
10/11/2014	8,626	9.36	89.55	8,602	-370	-378	246	7.77	6.26	-31.81	479.21	MWD	Weatherford
10/11/2014	8,657	11.76	79.22	8,633	-369	-377	252	9.83	7.74	-33.32	484.87	MWD	Weatherford
10/11/2014	8,688	13.90	70.95	8,663	-367	-375	258	9.08	6.90	-26.68	491.74	MWD	Weatherford
10/11/2014	8,720	15.95	63.66	8,694	-363	-372	266	8.68	6.41	-22.78	499.96	MWD	Weatherford
10/11/2014	8,751	17.66	53.41	8,724	-358	-367	273	11.02	5.52	-33.06	508.89	MWD	Weatherford
10/11/2014	8,782	18.45	42.47	8,753	-352	-361	280	11.21	2.55	-35.29	518.46	MWD	Weatherford
10/11/2014	8,813	18.82	31.82	8,782	-344	-353	286	11.03	1.19	-34.35	528.33	MWD	Weatherford
10/11/2014	8,844	19.32	19.80	8,812	-334	-344	291	12.75	1.61	-38.77	538.40	MWD	Weatherford
10/11/2014	8,876	20.43	9.94	8,842	-324	-334	294	11.02	3.47	-30.81	549.24	MWD	Weatherford

NEWFIELD

Directional Survey

Legal Well Name	Wellbore Name
Ranch 15-10-3-3-2W-UW	Original Hole

API/UWI	Surface Legal Location	Field Name	Well Type	Well Configuration Type
43013522960000	SWSE 368FSL 2311FEL SEC10 T3S R2W MERU	UINTA CB-WASATCH HORZ	Development	Horizontal

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10/11/2014	8,907	22.95	7.36	8,871	-312	-322	295	8.69	8.13	-8.32	560.70	MWD	Weatherford
10/11/2014	8,938	26.24	5.91	8,899	-300	-309	297	10.79	10.61	-4.68	573.60	MWD	Weatherford
10/11/2014	8,969	29.26	4.44	8,926	-285	-295	298	9.99	9.74	-4.74	588.03	MWD	Weatherford
10/11/2014	9,000	32.36	3.28	8,953	-269	-279	299	10.18	10.00	-3.74	603.90	MWD	Weatherford
10/11/2014	9,032	35.27	1.93	8,979	-252	-261	300	9.39	9.09	-4.22	621.71	MWD	Weatherford
10/11/2014	9,063	38.36	1.08	9,004	-233	-243	300	10.10	9.97	-2.74	640.28	MWD	Weatherford
10/11/2014	9,094	41.38	359.94	9,028	-213	-223	301	10.02	9.74	1157.61	660.15	MWD	Weatherford
10/11/2014	9,125	44.30	359.95	9,051	-192	-202	301	9.42	9.42	0.03	681.23	MWD	Weatherford
10/11/2014	9,156	47.42	1.00	9,072	-170	-180	301	10.35	10.06	-1157.90	703.47	MWD	Weatherford
10/11/2014	9,188	51.14	1.73	9,093	-146	-155	301	11.75	11.63	2.28	727.72	MWD	Weatherford
10/11/2014	9,219	54.25	2.72	9,112	-121	-131	302	10.35	10.03	3.19	752.38	MWD	Weatherford
10/11/2014	9,250	57.07	3.51	9,130	-95	-105	304	9.34	9.10	2.55	777.97	MWD	Weatherford
10/11/2014	9,281	60.09	3.65	9,146	-69	-79	305	9.75	9.74	0.45	804.42	MWD	Weatherford
10/11/2014	9,312	63.84	4.34	9,160	-42	-52	307	12.26	12.10	2.23	831.78	MWD	Weatherford
10/11/2014	9,344	67.27	4.30	9,174	-12	-23	309	10.72	10.72	-0.13	860.91	MWD	Weatherford
10/11/2014	9,375	70.12	4.19	9,185	16	6	312	9.20	9.19	-0.35	889.78	MWD	Weatherford
10/11/2014	9,406	73.51	3.87	9,194	46	36	314	10.98	10.94	-1.03	919.23	MWD	Weatherford
10/11/2014	9,437	76.88	3.43	9,202	76	66	316	10.96	10.87	-1.42	949.20	MWD	Weatherford
10/11/2014	9,469	79.76	2.94	9,209	107	97	317	9.12	9.00	-1.53	980.53	MWD	Weatherford
10/11/2014	9,500	83.20	2.71	9,213	138	127	319	11.12	11.10	-0.74	1,011.18	MWD	Weatherford
10/11/2014	9,531	86.42	1.83	9,216	169	158	320	10.76	10.39	-2.84	1,042.05	MWD	Weatherford
10/11/2014	9,562	88.59	1.50	9,218	200	189	321	7.08	7.00	-1.06	1,073.02	MWD	Weatherford
10/11/2014	9,593	88.77	0.93	9,218	231	220	322	1.93	0.58	-1.84	1,104.01	MWD	Weatherford
10/11/2014	9,625	88.58	0.23	9,219	263	252	322	2.27	-0.59	-2.19	1,136.00	MWD	Weatherford
10/11/2014	9,665	89.01	0.17	9,220	303	292	322	1.09	1.08	-0.15	1,176.00	MWD	Weatherford
10/11/2014	9,750	88.46	359.04	9,222	387	377	321	1.48	-0.65	422.20	1,260.97	MWD	Weatherford
10/11/2014	9,843	88.21	357.86	9,224	480	470	319	1.30	-0.27	-1.27	1,353.93	MWD	Weatherford
10/11/2014	9,937	87.90	356.81	9,228	574	564	315	1.16	-0.33	-1.12	1,447.88	MWD	Weatherford
10/11/2014	10,031	86.91	357.77	9,232	668	658	310	1.47	-1.05	1.02	1,541.78	MWD	Weatherford

NEWFIELD

Directional Survey

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Ranch 15-10-3-3-2W-UW	Original Hole

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10/11/2014	10,124	86.35	358.36	9,237	760	751	307	0.87	-0.60	0.63	1,634.62	MWD	Weatherford
10/11/2014	10,218	85.55	0.92	9,244	854	844	306	2.85	-0.85	-380.26	1,728.37	MWD	Weatherford
10/11/2014	10,312	86.66	1.00	9,250	948	938	308	1.18	1.18	0.09	1,822.15	MWD	Weatherford
10/11/2014	10,405	86.79	359.92	9,256	1,040	1,031	309	1.17	0.14	385.94	1,915.00	MWD	Weatherford
10/11/2014	10,499	85.93	359.31	9,262	1,134	1,125	308	1.12	-0.91	-0.65	2,008.81	MWD	Weatherford
10/11/2014	10,593	86.85	358.54	9,268	1,228	1,219	306	1.28	0.98	-0.82	2,102.62	MWD	Weatherford
10/11/2014	10,686	85.98	356.89	9,273	1,320	1,311	303	2.00	-0.94	-1.77	2,195.44	MWD	Weatherford
10/11/2014	10,780	86.67	357.19	9,279	1,414	1,405	298	0.80	0.73	0.32	2,289.24	MWD	Weatherford
10/11/2014	10,874	86.79	358.43	9,285	1,507	1,499	294	1.32	0.13	1.32	2,383.09	MWD	Weatherford
10/11/2014	10,967	86.17	354.81	9,291	1,600	1,591	289	3.94	-0.67	-3.89	2,475.90	MWD	Weatherford
10/11/2014	11,058	87.00	358.54	9,296	1,690	1,682	283	4.19	0.91	4.10	2,566.72	MWD	Weatherford
10/11/2014	11,155	86.60	1.95	9,301	1,787	1,779	284	3.53	-0.41	-367.62	2,663.55	MWD	Weatherford
10/11/2014	11,248	86.61	3.05	9,307	1,880	1,872	288	1.18	0.01	1.18	2,756.39	MWD	Weatherford
10/11/2014	11,342	87.22	2.03	9,312	1,974	1,965	292	1.26	0.65	-1.09	2,850.25	MWD	Weatherford
10/11/2014	11,436	87.35	0.89	9,316	2,068	2,059	294	1.22	0.14	-1.21	2,944.14	MWD	Weatherford
10/11/2014	11,529	87.48	358.85	9,321	2,161	2,152	294	2.20	0.14	384.90	3,037.04	MWD	Weatherford
10/11/2014	11,623	87.53	357.74	9,325	2,254	2,246	291	1.18	0.05	-1.18	3,130.95	MWD	Weatherford
10/11/2014	11,717	88.21	356.47	9,328	2,348	2,340	287	1.53	0.72	-1.35	3,224.88	MWD	Weatherford
10/11/2014	11,810	87.41	358.46	9,332	2,441	2,433	283	2.30	-0.86	2.14	3,317.81	MWD	Weatherford
10/11/2014	11,904	87.10	359.33	9,336	2,534	2,527	281	0.98	-0.33	0.93	3,411.70	MWD	Weatherford
10/11/2014	11,998	87.53	0.62	9,341	2,628	2,620	281	1.45	0.46	-381.61	3,505.60	MWD	Weatherford
10/11/2014	12,091	87.16	0.05	9,345	2,721	2,713	281	0.73	-0.40	-0.61	3,598.50	MWD	Weatherford
10/11/2014	12,185	87.54	359.10	9,349	2,815	2,807	281	1.09	0.40	381.97	3,692.39	MWD	Weatherford
10/11/2014	12,279	87.09	359.60	9,354	2,909	2,901	280	0.72	-0.48	0.53	3,786.29	MWD	Weatherford
10/11/2014	12,372	86.91	359.07	9,359	3,001	2,994	278	0.60	-0.19	-0.57	3,879.16	MWD	Weatherford
10/11/2014	12,466	87.90	359.50	9,363	3,095	3,088	277	1.15	1.05	0.46	3,973.07	MWD	Weatherford
10/11/2014	12,560	87.66	359.80	9,366	3,189	3,182	277	0.41	-0.26	0.32	4,066.99	MWD	Weatherford
10/11/2014	12,654	87.47	1.14	9,370	3,283	3,276	277	1.44	-0.20	-381.55	4,160.91	MWD	Weatherford
10/11/2014	12,747	87.53	1.60	9,374	3,376	3,369	280	0.50	0.06	0.49	4,253.82	MWD	Weatherford

NEWFIELD

Directional Survey

Legal Well Name	Wellbore Name
Ranch 15-10-3-3-2W-UW	Original Hole

API/UWI	Surface Legal Location	Field Name	Well Type	Well Configuration Type
43013522960000	SWSE 368FSL 2311FEL SEC10 T3S R2W MERU	UINTA CB-WASATCH HORZ	Development	Horizontal

Well RC	County	State/Province	Spud Date	Final Rig Release Date
500378194	Duchesne	Utah	9/24/2014 06:00	12/22/2014 16:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)	Unwrap Displace (ft)	Method	Survey Company
10/11/2014	12,841	87.47	1.97	9,379	3,470	3,462	283	0.40	-0.06	0.39	4,347.73	MWD	Weatherford
10/11/2014	12,935	87.84	2.02	9,382	3,564	3,556	286	0.40	0.39	0.05	4,441.65	MWD	Weatherford
10/11/2014	13,028	87.47	2.44	9,386	3,657	3,649	290	0.60	-0.40	0.45	4,534.57	MWD	Weatherford
10/11/2014	13,122	87.96	1.92	9,390	3,751	3,743	293	0.76	0.52	-0.55	4,628.50	MWD	Weatherford
10/11/2014	13,216	86.24	357.70	9,395	3,844	3,837	293	4.84	-1.83	378.49	4,722.35	MWD	Weatherford
10/11/2014	13,342	85.00	355.33	9,404	3,969	3,962	285	2.12	-0.98	-1.88	4,847.97	MWD	Weatherford
10/11/2014	13,435	87.88	357.13	9,410	4,062	4,055	279	3.65	3.10	1.94	4,940.78	MWD	Weatherford
10/11/2014	13,529	87.72	0.87	9,414	4,156	4,149	277	3.98	-0.17	-379.00	5,034.69	MWD	Weatherford
10/11/2014	13,623	88.03	1.67	9,417	4,250	4,243	279	0.91	0.33	0.85	5,128.63	MWD	Weatherford
10/11/2014	13,716	87.53	1.93	9,421	4,342	4,336	282	0.61	-0.54	0.28	5,221.56	MWD	Weatherford
10/11/2014	13,810	86.92	0.87	9,425	4,436	4,429	285	1.30	-0.65	-1.13	5,315.44	MWD	Weatherford
10/11/2014	13,904	86.29	0.03	9,431	4,530	4,523	285	1.12	-0.67	-0.89	5,409.28	MWD	Weatherford
10/11/2014	13,997	86.54	0.21	9,437	4,623	4,616	286	0.33	0.27	0.19	5,502.10	MWD	Weatherford
10/11/2014	14,091	87.16	2.17	9,442	4,717	4,710	288	2.18	0.66	2.09	5,595.95	MWD	Weatherford
10/11/2014	14,185	87.16	2.32	9,447	4,811	4,804	291	0.16	0.00	0.16	5,689.83	MWD	Weatherford
10/11/2014	14,278	86.73	1.89	9,452	4,904	4,897	295	0.65	-0.46	-0.46	5,782.70	MWD	Weatherford
10/11/2014	14,372	86.55	1.43	9,457	4,997	4,990	297	0.52	-0.19	-0.49	5,876.54	MWD	Weatherford
10/11/2014	14,466	86.61	359.97	9,463	5,091	5,084	299	1.55	0.06	381.43	5,970.37	MWD	Weatherford
10/11/2014	14,559	86.86	359.40	9,468	5,184	5,177	298	0.67	0.27	-0.61	6,063.22	MWD	Weatherford
10/11/2014	14,653	86.91	359.45	9,473	5,278	5,271	297	0.08	0.05	0.05	6,157.08	MWD	Weatherford
10/11/2014	14,747	85.87	359.70	9,479	5,371	5,365	296	1.14	-1.11	0.27	6,250.89	MWD	Weatherford
10/11/2014	14,840	87.23	1.29	9,485	5,464	5,458	297	2.25	1.46	-385.39	6,343.72	MWD	Weatherford
10/11/2014	14,934	86.17	1.84	9,490	5,558	5,551	300	1.27	-1.13	0.59	6,437.56	MWD	Weatherford
10/11/2014	15,028	88.46	1.79	9,494	5,652	5,645	303	2.44	2.44	-0.05	6,531.45	MWD	Weatherford
10/11/2014	15,121	86.79	359.70	9,498	5,745	5,738	304	2.88	-1.80	384.85	6,624.36	MWD	Weatherford
10/11/2014	15,215	88.15	359.64	9,502	5,839	5,832	303	1.45	1.45	-0.06	6,718.27	MWD	Weatherford
10/11/2014	15,309	85.99	357.14	9,507	5,932	5,926	301	3.51	-2.30	-2.66	6,812.13	MWD	Weatherford
10/11/2014	15,403	87.66	359.09	9,512	6,026	6,020	298	2.73	1.78	2.07	6,905.98	MWD	Weatherford
10/11/2014	15,496	87.54	1.16	9,516	6,119	6,113	298	2.23	-0.13	-384.87	6,998.89	MWD	Weatherford

NEWFIELD

Directional Survey

Legal Well Name	Wellbore Name
Ranch 15-10-3-3-2W-UW	Original Hole

API/UWI	Surface Legal Location	Field Name	Well Type	Well Configuration Type
43013522960000	SWSE 368FSL 2311FEL SEC10 T3S R2W MERU	UINTA CB-WASATCH HORZ	Development	Horizontal

Well RC	County	State/Province	Spud Date	Final Rig Release Date
500378194	Duchesne	Utah	9/24/2014 06:00	12/22/2014 16:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)	Unwrap Displace (ft)	Method	Survey Company
10/11/2014	15,590	87.16	5.03	9,521	6,213	6,206	303	4.13	-0.40	4.12	7,092.77	MWD	Weatherford
10/11/2014	15,684	87.62	6.83	9,525	6,306	6,300	313	1.97	0.49	1.91	7,186.67	MWD	Weatherford
10/11/2014	15,777	88.83	3.27	9,528	6,399	6,392	321	4.04	1.30	-3.83	7,279.61	MWD	Weatherford
10/11/2014	15,871	86.48	357.95	9,532	6,493	6,486	322	6.18	-2.50	377.32	7,373.49	MWD	Weatherford
10/11/2014	15,964	87.28	358.52	9,537	6,586	6,579	319	1.06	0.86	0.61	7,466.35	MWD	Weatherford
10/11/2014	16,058	86.85	357.20	9,542	6,679	6,673	315	1.48	-0.46	-1.40	7,560.23	MWD	Weatherford
10/11/2014	16,152	87.23	357.91	9,546	6,773	6,767	311	0.86	0.40	0.76	7,654.10	MWD	Weatherford
10/11/2014	16,245	87.22	356.91	9,551	6,866	6,859	307	1.07	-0.01	-1.08	7,746.99	MWD	Weatherford
10/11/2014	16,339	87.16	357.63	9,556	6,959	6,953	303	0.77	-0.06	0.77	7,840.88	MWD	Weatherford
10/11/2014	16,433	86.98	358.44	9,560	7,053	7,047	300	0.88	-0.19	0.86	7,934.75	MWD	Weatherford
10/11/2014	16,526	87.16	356.37	9,565	7,146	7,140	295	2.23	0.19	-2.23	8,027.63	MWD	Weatherford
10/11/2014	16,620	87.84	355.40	9,569	7,239	7,233	289	1.26	0.72	-1.03	8,121.54	MWD	Weatherford
10/11/2014	16,713	86.54	356.86	9,574	7,331	7,326	282	2.10	-1.40	1.57	8,214.42	MWD	Weatherford
10/11/2014	16,807	87.72	2.74	9,578	7,425	7,420	282	6.37	1.26	-376.72	8,308.26	MWD	Weatherford
10/11/2014	16,901	87.78	1.26	9,582	7,519	7,514	285	1.57	0.06	-1.57	8,402.18	MWD	Weatherford
10/11/2014	16,994	87.84	1.56	9,586	7,612	7,607	288	0.33	0.06	0.32	8,495.12	MWD	Weatherford
10/11/2014	17,088	87.90	1.89	9,589	7,706	7,701	290	0.36	0.06	0.35	8,589.05	MWD	Weatherford
10/11/2014	17,182	87.78	1.28	9,593	7,800	7,794	293	0.66	-0.13	-0.65	8,682.98	MWD	Weatherford
10/11/2014	17,275	88.52	1.93	9,596	7,893	7,887	296	1.06	0.80	0.70	8,775.93	MWD	Weatherford
10/11/2014	17,369	86.67	2.40	9,600	7,987	7,981	299	2.03	-1.97	0.50	8,869.85	MWD	Weatherford
10/11/2014	17,462	87.41	4.17	9,604	8,080	8,074	305	2.06	0.80	1.90	8,962.72	MWD	Weatherford
10/11/2014	17,556	87.90	3.47	9,608	8,173	8,168	311	0.91	0.52	-0.74	9,056.64	MWD	Weatherford
10/11/2014	17,650	86.61	1.70	9,613	8,267	8,261	315	2.33	-1.37	-1.88	9,150.53	MWD	Weatherford
10/11/2014	17,743	86.73	1.62	9,618	8,360	8,354	318	0.15	0.13	-0.09	9,243.37	MWD	Weatherford
10/11/2014	17,837	87.10	1.41	9,623	8,454	8,448	320	0.45	0.39	-0.22	9,337.23	MWD	Weatherford
10/11/2014	17,931	86.55	2.63	9,628	8,548	8,542	323	1.42	-0.59	1.30	9,431.09	MWD	Weatherford
10/11/2014	18,024	87.16	0.30	9,634	8,641	8,635	326	2.59	0.66	-2.51	9,523.94	MWD	Weatherford
10/11/2014	18,118	86.61	359.69	9,639	8,734	8,729	326	0.87	-0.59	382.33	9,617.80	MWD	Weatherford
10/11/2014	18,212	86.67	0.61	9,644	8,828	8,822	326	0.98	0.06	-382.00	9,711.64	MWD	Weatherford

NEWFIELD

Directional Survey

Legal Well Name		Wellbore Name			
Ranch 15-10-3-3-2W-UW		Original Hole			
API/UWI	Surface Legal Location	Field Name	Well Type	Well Configuration Type	
43013522960000	SWSE 368FSL 2311FEL SEC10 T3S R2W MERU	UINTA CB-WASATCH HORZ	Development	Horizontal	
Well RC	County	State/Province	Spud Date	Final Rig Release Date	
500378194	Duchesne	Utah	9/24/2014 06:00	12/22/2014 16:00	

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)	Unwrap Displace (ft)	Method	Survey Company
10/11/2014	18,305	86.30	359.25	9,650	8,921	8,915	326	1.51	-0.40	385.63	9,804.46	MWD	Weatherford
10/11/2014	18,399	86.48	357.85	9,656	9,015	9,009	324	1.50	0.19	-1.49	9,898.27	MWD	Weatherford
10/11/2014	18,493	86.49	356.37	9,662	9,108	9,103	319	1.57	0.01	-1.57	9,992.09	MWD	Weatherford
10/11/2014	18,586	86.29	356.75	9,667	9,201	9,195	313	0.46	-0.22	0.41	10,084.91	MWD	Weatherford
10/11/2014	18,680	87.04	356.13	9,673	9,294	9,289	307	1.03	0.80	-0.66	10,178.75	MWD	Weatherford
10/11/2014	18,773	87.00	358.19	9,678	9,387	9,382	303	2.21	-0.04	2.22	10,271.61	MWD	Weatherford
10/11/2014	18,867	86.42	2.37	9,683	9,480	9,476	303	4.48	-0.62	-378.53	10,365.44	MWD	Weatherford
10/11/2014	18,961	88.15	4.70	9,688	9,574	9,569	309	3.08	1.84	2.48	10,459.32	MWD	Weatherford
10/11/2014	19,015	84.94	2.57	9,691	9,628	9,623	313	7.13	-5.94	-3.94	10,513.21	MWD	Weatherford
10/11/2014	19,045	84.94	2.57	9,693	9,658	9,653	314	0.00	0.00	0.00	10,543.10	Extrap.	Weatherford

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
Patented

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Oil Well

8. WELL NAME and NUMBER:
RANCH 15-10-3-3-2W-UW

2. NAME OF OPERATOR:
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:
43013522960000

3. ADDRESS OF OPERATOR:
Rt 3 Box 3630 , Myton, UT, 84052

PHONE NUMBER:
435 646-4825 Ext

9. FIELD and POOL or WILDCAT:
NORTH MYTON BENCH

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
0368 FSL 2311 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SWSE Section: 10 Township: 03.0S Range: 02.0W Meridian: U

COUNTY:
DUCHESNE

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
✓ SUBSEQUENT REPORT Date of Work Completion: 8/4/2015	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	✓ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

An artificial Lift System was installed on the above mentioned well. Well began producing to facilities @ 1:30 PM 8/4/2015 (currently flowing on a 24/64" choke @ 259 psi TP W/ 50 psi SICP).

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
August 19, 2015

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Mandie Crozier	435 646-4825	Regulatory Tech
SIGNATURE		**DATE**
N/A		8/18/2015

RECEIVED: Aug. 18, 2015

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: Patented

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: RANCH 15-10-3-3-2W-UW

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 43013522960000

3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052

PHONE NUMBER: 435 646-4825 Ext

9. FIELD and POOL or WILDCAT: NORTH MYTON BENCH

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0368 FSL 2311 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 10 Township: 03.0S Range: 02.0W Meridian: U

COUNTY: DUCHESNE

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
✓ SUBSEQUENT REPORT Date of Work Completion: 8/27/2014	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Form 7

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

As per our conversation with Dustin Doucet, attached find the form 7 for the above mentioned well.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
January 22, 2016

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Heather Calder	435 646-4936	Production Technician
SIGNATURE N/A		**DATE** 1/22/2016

RECEIVED: Jan. 22, 2016

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 7

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well name and number: Ranch 15-10-3-3-2W-MW

API number: 4301352296

Well Location: QQ SWSE Section 10 Township 3S Range 2W County Duchesne

Well operator: Newfield Production Company

Address: Route #3 Box 3630

city Myton state Ut zip 84052 Phone: (435) 646-3721

Drilling contractor: Pro Petro

Address: 1422 East 1500 South

city Vernal state UT zip 84078 Phone: (435) 789-7407

Water encountered (attach additional pages as needed):

DEPTH		VOLUME	QUALITY
FROM	TO	(FLOW RATE OR HEAD)	(FRESH OR SALTY)
410		12	Fresh

Formation tops: (Top to Bottom)

1	See Completion Repor	2		3	
4		5		6	
7		8		9	
10		11		12	

If an analysis has been made of the water encountered, please attach a copy of the report to this form.

I hereby certify that this report is true and complete to the best of my knowledge.

NAME (PLEASE PRINT) Heather Calder TITLE Regulatory Associate

SIGNATURE Heather Calder DATE 1/22/2016

(5/2000)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: Patented

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: RANCH 15-10-3-3-2W-UW

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 43013522960000

3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052

PHONE NUMBER: 435 646-4825 Ext

9. FIELD and POOL or WILDCAT: NORTH MYTON BENCH

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0368 FSL 2311 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 10 Township: 03.0S Range: 02.0W Meridian: U

COUNTY: DUCHESNE

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
✓ SUBSEQUENT REPORT Date of Work Completion: 12/23/2014	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Daily Drilling Reports

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

As per our conversation with Dustin Doucet, attached find the Daily Drilling Reports for the above mentioned well.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
January 22, 2016

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Mandie Crozier	435 646-4825	Regulatory Tech
SIGNATURE N/A		**DATE** 1/21/2016

RECEIVED: Jan. 21, 2016

NEWFIELD

Summary Rig Activity

Well Name: Ranch 15-10-3-3-2W-UW

Job Category	Job Start Date	Job End Date

Daily Operations

Report Start Date	Report End Date	24hr Activity Summary
8/27/2014	8/28/2014	Set 60' of 20" conductor pipe.

Start Time	End Time	Comment
00:00	00:00	Pete Martin Rig #16 spudded 26" hole on 08/27/2014 and drilled to 60' GL. Set 20", 52.78# (0.250" wall), SA53B conductor pipe at 60' GL and cemented to surface with Redi Mix. Kylan Cook notified UDOGM and BLM by e-mail @ 21:30 PM on 08/24/2014 to spud conductor hole on 08/26/2014. (Spud date pushed back due to rain/construction of location.)

Report Start Date	Report End Date	24hr Activity Summary
9/4/2014	9/5/2014	Rig up. Make repairs. Wait for arrival of spare mud pump coming from TX.

Start Time	End Time	Comment
00:00	00:00	Move rig over (Pad Well) from Ute Tribal 14-10-3-3-2W-UW. Rig up. Make repairs. Wait for arrival of spare mud pump coming from TX.

Report Start Date	Report End Date	24hr Activity Summary
9/8/2014	9/9/2014	Start equipment. Pick up BHA. Trip in hole to 60' GL. Spud 17 1/2" surface hole. Drill to 180' GL. Trip out of hole. Continue to wait for 2nd mud pump.

Start Time	End Time	Comment
00:00	08:30	Wait for 2nd mud pump. Scheduled to arrive today 09/08/2014.
08:30	10:00	Start equipment. Prepare to pick up BHA.
10:00	12:00	Start picking up BHA. Trip in hole to 60' GL.
12:00	14:30	Spud 17 1/2" hole @ 12:00 PM on 09/08/2014. Drill from 60' GL to 180' GL while picking up BHA. Received news that 2nd pump is held up at port in Cheyenne WY. Shut down and wait for 2nd pump. Should arrive 09/09/2014.
14:30	16:00	Circulate. Trip out of hole.
16:00	00:00	Wait for arrival of 2nd mud pump. Should arrive 09/09/2014.

Report Start Date	Report End Date	24hr Activity Summary
9/9/2014	9/10/2014	Wait for arrival of 2nd mud pump.

Start Time	End Time	Comment
00:00	00:00	Wait for arrival of 2nd mud pump.

Report Start Date	Report End Date	24hr Activity Summary
9/10/2014	9/11/2014	Wait for mud pump. Pick up directional BHA. Trip in hole to 180' GL. Drill from 180' GL to 980' GL.

Start Time	End Time	Comment
00:00	06:30	Wait for 2nd mud pump.
06:30	08:30	Start picking up directional BHA. Trip in hole to 180' GL.
08:30	09:00	Install rotating head rubber.

NEWFIELD

Summary Rig Activity

Well Name: Ranch 15-10-3-3-2W-UW

Start Time	End Time	Comment
09:00	15:00	Drill from 180' GL to 530' GL while picking up BHA. First sign of water flow was while making connection at 410' GL. Flowing about 12 gallons per minute. Water sample was collected.
15:00	15:30	Change rubber size in rotating head.
15:30	00:00	Drill from 530' GL to 980' GL.

Report Start Date	Report End Date	24hr Activity Summary
9/11/2014	9/12/2014	Drill from 980' GL to TD @ 1645' GL. Circulate. Trip out of hole. Start running surface casing.

Start Time	End Time	Comment
00:00	11:30	Drill from 980' GL to 1520' GL.
11:30	12:30	Change swab and fix rod washer in mud pump.
12:30	14:30	Drill from 1520' GL to TD @ 1645' GL. TD 17 1/2" hole @ 14:30 PM on 09/11/2014.
14:30	16:30	Circulate to trip out of hole for surface casing.
16:30	21:30	Trip out of hole to run surface casing.
21:30	22:00	Rig up to run surface casing. First sign of water flow was while making connection at 410' GL. Well flowing 8 gallons per minute at the start of running casing.
22:00	00:00	Run surface casing to 600' GL. Casing details will be on next report.

Report Start Date	Report End Date	24hr Activity Summary
9/12/2014	9/13/2014	Finish running casing. Circulate. Weld top cap. Cement surface casing. Wait on cement, clean pits, and rig down. Release rig.

Start Time	End Time	Comment
00:00	03:30	Run 38 joints (1627.48') of 13 3/8", 54.5#, J-55, BT&C casing with Top-Co guide shoe and float collar. 14 centralizers spaced 10' from the shoe, on top of joints #2 & #3 then every 3rd collar to surface. Landed @ 1627.48' GL, Float Collar @ 1591.77' GL. Had to wash last 3 joints of casing down.
03:30	04:30	Circulate with casing on bottom.
04:30	06:00	Weld top cap from casing to conductor pipe.
06:00	06:30	Circulate casing with rig pump. Rig up Pro Petro Cementers.

NEWFIELD

Summary Rig Activity

Well Name: Ranch 15-10-3-3-2W-UW

Start Time	End Time	Comment
06:30	08:30	Cement Job: Pumped 30 bbls fresh water & 40 bbls gelled water flush ahead of cement. Lead: Mixed and pumped 580 sacks (280 bbls) of Type V Cement with 16% Gel, 10 #/sk Gilsonite, 2#/sk Gr3, 3% Salt, and 1/4 #/sk Flocele. Mixed cement @ 12.0 ppg with yield of 2.86 cf/sk. Tail: Mixed and pumped 675 sacks (138 bbls) of Premium Class G Cement with 2% CaCl2, and 1/4 #/sk Flocele. Mixed cement @ 15.8 ppg with yield of 1.15 cf/sk. Displaced cement with 246 bbls fresh water. Bumped plug with 800# @ 08:25 AM on 09/12/2014. Floats held. 80 bbls cement to surface. Shut in well after pumping stopped. Kylan Cook notified UDOGM and BLM of the surface casing & cement job via e-mail on 09/10/2014 @ 21:30 PM.
08:30	16:30	Wait on cement, clean pits, and rig down. Release rig @ 16:30 PM on 09/12/2014.

Report Start Date	Report End Date	24hr Activity Summary
9/23/2014	9/24/2014	Finish preparation of location for drilling rig.

Start Time	End Time	Comment
00:00	00:00	09/17/2014 - Drill Mouse Hole. 09/19/2014 - Final blade location. 09/20/2014 - Weld on Wellhead. 09/24/2014 - Cement cellar floor up to the top of base plate on wellhead. SURFACE HOLE DIRECTIONAL SURVEY DEPTHS ARE GROUND LEVEL. Location is ready for drilling rig.

Report Start Date	Report End Date	24hr Activity Summary
9/24/2014	9/25/2014	MIRU. 2 loads moved in.

Start Time	End Time	Comment
06:00	18:00	MIRU - 2 loads.
18:00	00:00	SDFN

Report Start Date	Report End Date	24hr Activity Summary
9/25/2014	9/26/2014	MIRU - 20 loads

Start Time	End Time	Comment
00:00	06:00	SDFN
06:00	18:00	MIRU - 20 loads
18:00	00:00	SDFN

Report Start Date	Report End Date	24hr Activity Summary
9/26/2014	9/27/2014	MIRU - 10 loads. RU Mud pits, set mud pumps 1 & 2, setup matting boards, RU camps.

Start Time	End Time	Comment
00:00	06:00	SDFN
06:00	20:00	MIRU - 10 loads. RU Mud pits, set mud pumps 1 & 2, setup matting boards, RU camps.
20:00	00:00	SDFN

NEWFIELD

Summary Rig Activity

Well Name: Ranch 15-10-3-3-2W-UW

Daily Operations

Report Start Date	Report End Date	24hr Activity Summary
9/27/2014	9/28/2014	MIRU - 11 Loads

Start Time	End Time	Comment
00:00	06:00	SDFN
06:00	19:00	MIRU, Set hopper house, Grass hopper, water tank, Boiler house, VFD house, 1 side of sub, 11 Loads
19:00	00:00	Wait on Daylight.

Report Start Date	Report End Date	24hr Activity Summary
9/28/2014	9/29/2014	MIRU - 6 Loads

Start Time	End Time	Comment
00:00	06:00	SDFN
06:00	19:00	MIRU, Set shakers, choke house, Parts house, Set off driller side sub, Fuel tank, HPU, All three generator houses, Pin floor beams, Set draworks on the floor, 6 Loads recieved
19:00	00:00	Wait on Daylight.

Report Start Date	Report End Date	24hr Activity Summary
9/29/2014	9/30/2014	MIRU - 5 Loads

Start Time	End Time	Comment
00:00	06:00	SDFN
06:00	19:30	MIRU, Set off driller side dog house on floor, Driller dog house, Put derrick on rig floor and pin derrick together & Pin board on derrick, set flowline skid,,suit cases, Hook up HPU function test MRC & Bleed three times, Dock blocks to top drive, set stairs to floor, put gas buster on stand, 5 Loads of drill pipe recieved.
19:30	00:00	Wait on Daylight.

Report Start Date	Report End Date	24hr Activity Summary
9/30/2014	10/1/2014	Rig up - 2 Loads of drill pipe

Start Time	End Time	Comment
00:00	06:00	SDFN
06:00	18:00	Rig up, Raised derrick, Hang service loop, rig up ST 80, Run elec through out rig, Rig up floor, Set Peaks solids control equ,
18:00	00:00	Raise sub structure, Hook up drain hoses on sub, H/U BOP line guide shves, R/U Steam heaters in sub, H/U mud line F/ suit case to pumps.

Report Start Date	Report End Date	24hr Activity Summary
10/1/2014	10/2/2014	Rig up - Loads of drill pipe, spool DL, function TD, RU to set BOP with wrangler and nipple up BOP

Start Time	End Time	Comment
00:00	00:00	Ready CMS for connecting to sub, H/U jumper to CMS, Steam lines in subs, Choke line, Place floor mats, R/U climb assist to block, Un-pin boost cylinder, R/U catwalk guides, Hook up boomers to Bop sheaves, Finish setting Peaks equip, R/U flow line, H/U all elec, Set beaver slide, Stairs, suit cases, Cellar covers, Test draworks brakes, R/U steam lines, slip drill line on drum and wrap dead man, pull out accumulator line for sub, hook up lines to top drive and function top drive

Report Start Date	Report End Date	24hr Activity Summary
10/2/2014	10/3/2014	Rig up

NEWFIELD

Summary Rig Activity

Well Name: Ranch 15-10-3-3-2W-UW

Start Time	End Time	Comment
00:00	00:00	Rig up, Calibrate Draworks, Function rig tools, Put up Bop landing, Install Gas buster lines, Work On Top Drive, Cont to rig up peak equipment, R/U steam lines,R/U Bar Hopper, Checked pumps through 2", ran water throughout system to check for leaks, rig up accumulator lines, install cameras and run lines, RU and inspect derrick escape line

Report Start Date	Report End Date	24hr Activity Summary
10/3/2014	10/4/2014	Nipple and test

Start Time	End Time	Comment
00:00	06:00	RU misc equip and rig inspection
06:00	16:00	(Start) HPJSM & Nipple Up Bop & prepare to test Bop's As Follows, Install Bottom Spacer spool, Set Stack on Well Head & Spacer Spool, Install Spacer Spool & Rotating Head, Install Choke Valve & HCR, Kill line Valves, & Choke & Kill Lines, Torque up Bop, Hook Up Koomey Lines and Function Test Bop's Modify and Fab Flow Line (Accept rig on day work @ 06:00 on 10/3/2014)
16:00	00:00	(Start) Test BOPE/Csg... Rig Up testers & Test BOP's , test TIW, dart valve, Lower Kelly cock valve, and IBOP to 250 psi low 5000 psi high. man IBOP, dart, outside manifold vales, downstream manifold valves to 250 psi 5 min low - 5000 psi 10 min high, had leak on flanges for guages on crown valve(stripped bolts) change out bolts while continue to test BOP.

Report Start Date	Report End Date	24hr Activity Summary
10/4/2014	10/5/2014	Test BOP,Install Flex Section of Flow Line, Install Wear Bushing, P/U BHA to 541', repair hyd catwalk, PU HWDP to 730'.

Start Time	End Time	Comment
00:00	11:00	Test BOP's , test annular 250 psi low 3500 psi high, test upper and lower pipe rams, 250 psi 5 min low - 5000 psi 10 min high, mudline - 250 psi 5 min low 5000 psi 10 min high, Fill csg and test 1500 psi for 30 mins, R/D Testers
11:00	13:00	Install Flex line in flow line R/U Rotating head and Hook up Oiler
13:00	14:00	Load & Strap BHA & Install Wear Bushing.
14:00	20:30	(StART) P/U BHA directional tools, Bit, Mud Motor, X/O, Mule Shoe, 2- NMDC, X/O, Float Sub, HWDP to 541'
20:30	23:30	Electrition working on catwalk
23:30	00:00	(Start) PU HWDP and DP f/730'

Report Start Date	Report End Date	24hr Activity Summary
10/5/2014	10/6/2014	Cont to P/U BHA,Install Rotating Head, Cont to P/U BHA Tag Cement , Rig Service, Rig Repair, Drill Shoe Track, Drill f/ 1673' to 1683', Circ Btms up and conduct FIT test, Drill 12.25" sections f/ 1683' to 2456', Rig Service, Rig Repair on Top Drive. Drill f/ 2456' to 2550' Rig Repair Top Drive, Drill f/ 2550' to 3408', Adjust hyd psi on TD grabber.

Start Time	End Time	Comment
00:00	01:00	Cont To P/U BHA f/ 730' to 1051'
01:00	02:00	Install Rotating Head Rubber
02:00	03:00	Test Dir Tools Test was Good
03:00	04:30	Cont To P/U BHA f/ 1051' to 1588' Tagged Cement @ 1588'
04:30	05:00	Routine Rig Service
05:00	05:30	Repair Air Line On Air Boot For flow line
05:30	07:30	(Start) Drill shoe track/FIT... Drill cement f/ 1588' to 1673' (Float Collar @ 1620' Float Shoe @ 1655')

NEWFIELD

Summary Rig Activity

Well Name: Ranch 15-10-3-3-2W-UW

Start Time	End Time	Comment
07:30	08:00	Drill 10' of new formation for FIT. Drill 12.25" Vertical Hole Section F/ 1673' To 1683' (2 Pumps on the hole at 75 a piece, 600 GPM) Present Mwt 8.5 ppg
08:00	08:30	Circ Bottoms up, Spot Hi Vis Pill, FIT to 13 ppg EMW, 13 ppg- 8.5 ppg=4.5 x .052 x 1683' = 393 psi
08:30	14:30	(Start) Drill 12.25" Vertical Hole Section F/ 1683' To 2456' (2 Pumps on the hole at 105 a piece, 808 GPM) Present Mwt 8.7 ppg Pump 30 bbl Hi Vis Sweep Every 200'
14:30	15:00	Rig Service
15:00	15:30	Trouble Shoot Top Drive Gabber
15:30	16:30	(Start) Drill 12.25" Vertical Hole Section F/ 2456' To 2550' (2 Pumps on the hole at 105 a piece, 808 GPM) Present Mwt 8.8 ppg Pump 30 bbl Hi Vis Sweep Every 200'
16:30	17:00	Trouble Shoot Top Drive Gabber
17:00	23:30	Drill 12.25" Vertical Hole Section F/ 2550' To 3408' (2 Pumps on the hole at 105 a piece, 808 GPM) Present Mwt 8.9 ppg Pump 30 bbl Hi Vis Sweep Every 200'
23:30	00:00	Adjust Hyd psi on TD grabber

Report Start Date	Report End Date	24hr Activity Summary
10/6/2014	10/7/2014	Drill f/3408'- 5094' Rig Service, Drill f/ 5094' to 5495'

Start Time	End Time	Comment
00:00	16:30	Drill 12.25" Vertical Hole Section f/ 3408' To 5094' (2 Pumps on the hole at 105 a piece, 808 GPM) Present Mwt 9.1 ppg Pump 30 bbl Hi Vis Sweep Every 200'
16:30	17:00	Routine Rig Service
17:00	00:00	Drill 12.25" Vertical Hole Section f/ 5094' To 5495' (2 Pumps on the hole at 105 a piece, 808 GPM) Present Mwt 9.1 ppg Pump 30 bbl Hi Vis Sweep Every 200'

Report Start Date	Report End Date	24hr Activity Summary
10/7/2014	10/8/2014	Drill f/ 5495' to 5656', Rig Service, Drill f/ 5656' to 5701', Work Tight Hole,Drill f/ 5701'to 5936', Rig Service, Drill f/ 5936' to 6324'

Start Time	End Time	Comment
00:00	02:30	Drill 12.25" Vertical Hole Section f/ 5495' To 5656' (2 Pumps on the hole at 105 a piece, 808 GPM) Present Mwt 9.1 ppg Pump 30 bbl Hi Vis Sweep Every 200'
02:30	03:00	Rig service
03:00	03:30	Drill 12.25" Vertical Hole Section f/ 5656' To 5701' (2 Pumps on the hole at 105 a piece, 808 GPM) Present Mwt 9.1 ppg Pump 30 bbl Hi Vis Sweep Every 200'
03:30	05:00	(Start) Work stuck pipe @ 5701', jar loose w/100K over string wt. Inspect derrick.
05:00	13:00	Drill 12.25" Vertical Hole Section f/ 5701' To 5936' (2 Pumps on the hole at 105 a piece, 840 GPM) Present Mwt 9.1 ppg Pump 30 bbl Hi Vis Sweep Every 200'
13:00	13:30	Rig Service

NEWFIELD

Summary Rig Activity

Well Name: Ranch 15-10-3-3-2W-UW

Start Time	End Time	Comment
13:30	00:00	Drill 12.25" Vertical Hole Section f/ 5936' To 6324' (2 Pumps on the hole at 105 a piece, 840 GPM) Present Mwt 9.1 ppg Pump 30 bbl Hi Vis Sweep Every 200'

Report Start Date	Report End Date	24hr Activity Summary
10/8/2014	10/9/2014	Drill f/ 6324' to 6405', rig service, Drill f/ 6405' to 7216'

Start Time	End Time	Comment
00:00	01:30	Drill 12.25" Vertical Hole Section f/ 6324' To 6405' (2 Pumps on the hole at 105 a piece, 840 GPM) Present Mwt 9.1 ppg Pump 30 bbl Hi Vis Sweep Every 200'
01:30	02:00	Rig service
02:00	00:00	Drill 12.25" Vertical Hole Section f/ 6405' To 7216' (2 Pumps on the hole at 105 a piece, 840 GPM) Present Mwt 9.4 ppg Pump 30 bbl Hi Vis Sweep Every 200'

Report Start Date	Report End Date	24hr Activity Summary
10/9/2014	10/10/2014	Circ BU and mix and pump slug, POOH for motor, work tight hole through Trona @ 5720', 5696' and 5668' W/R 90', kill pumps and straight pull with no drag, POOH work tight hole @ 4084'. Rig Service,Cont to POOH f/3039' to Dir BHA, Handle Dir BHA. Trpi in hole to 4262', W/R spots at 3862', 4009', 4218'.

Start Time	End Time	Comment
00:00	03:00	(Start) Circ BU and mix and pump slug,
03:00	05:30	(Start) Trip for motor, work tight hole through Trona @ 5720', 5696' and 5668'
05:30	06:30	(Start) W/R 90' kill pumps and straight pull through tight spots with no drag Pump trip Slug
06:30	10:00	Trip for motor, work tight hole @ 4084', Monitor well on trip tank
10:00	10:30	Rig Service
10:30	13:00	Cont to trip out of the hole f/3039' to Dir BHA (Montior well on trip Tank)
13:00	20:00	(Start) Handle BHA, Change out directional tools and surface test MWD
20:00	00:00	(Start) TIH to 4262', W/R spots at 3862', 4009', 4218'

Report Start Date	Report End Date	24hr Activity Summary
10/10/2014	10/11/2014	Trip in hole from 4262' to 7216, W/R spots at 3862', 4009', 4218', 4286', 4888', 5390', 5663', 5728' to 7216', Drill f/ 7216' to 7434', Rig Service, Drill f/ 7434' to 7809'.

Start Time	End Time	Comment
00:00	12:30	Trip in hole from 4262' to 7216, W/R spots at 4286', 4888', 5390', 5663', 5728',To 7216'
12:30	16:00	(Start) Drill 12.25" Vertical Hole Section f/ 7216' To 7434' (2 Pumps on the hole at 105 a piece, 840 GPM) Present Mwt 9.4 ppg Raise Mwt To 9.8 ppg Pump 30 bbl Hi Vis Sweep Every 200'
16:00	16:30	Routine Rig Service
16:30	00:00	Drill 12.25" Vertical Hole Section f/ 7434' To 7809' (2 Pumps on the hole at 100 a piece, 820 GPM) Present Mwt 9.8 ppg Pump 30 bbl Hi Vis Sweep @ 7550' and 7730'.

Report Start Date	Report End Date	24hr Activity Summary
10/11/2014	10/12/2014	Drill f/ 7809' to 7996' Rig Service, Drill f/ 7996' to 8540', Circ & Pump Hi Vis Sweeps & Raise Mwt f/ 9.8 to 10.1 ppg. TOOH F/8540' - 3390'.

Start Time	End Time	Comment
00:00	03:00	Drill 12.25" Vertical Hole Section f/ 7809' To 7996' (2 Pumps on the hole at 100 a piece, 820 GPM) Present Mwt 9.8 ppg Pump 30 bbl Hi Vis Sweep
03:00	03:30	Routine Rig Service

NEWFIELD

Summary Rig Activity

Well Name: Ranch 15-10-3-3-2W-UW

Start Time	End Time	Comment
03:30	13:00	Drill 12.25" Vertical Hole Section f/ 7996' To 8383' (2 Pumps on the hole at 100 a piece, 820 GPM) Present Mwt 9.9 ppg Pump 30 bbl Hi Vis Sweep
13:00	13:30	Routine Rig Service
13:30	17:00	Drill 12.25" Vertical Hole Section f/ 8383' To 8540' (2 Pumps on the hole at 100 a piece, 820 GPM) Present Mwt 9.9 ppg Pump 30 bbl Hi Vis Sweep. (TD 12.25" Vertical Hole Section at 5 pm.)
17:00	20:30	Circulate. Build and pump two High Visc. sweeps. Bring MW up to 10.1. Build 50 bbl 12# stay dry pill.
20:30	00:00	(Start) Trip... Fill Trip tank, Check flow - No Flow, Pump pill and TOOH to 3390' - monitoring trip tank for fill. Hole taking proper fill.

Report Start Date	Report End Date	24hr Activity Summary
10/12/2014	10/13/2014	TOOH F/3390' - Surface. Handle BHA. Pull wear bushing. Rig Service. Clear rig floor and hold safety meeting w/ Frank's and rig crew. RU and run 9 5/8" casing. RU Halliburton cementers.

Start Time	End Time	Comment
00:00	02:00	TOOH F/3390' to BHA. Stand back HWDP and jars.
02:00	05:00	Check flow - no flow. Pull rotating head rubber. LD pulse tool, stand back monels, break bit, and LD motor.
05:00	06:00	Pull wear bushing.
06:00	06:30	Routine Rig Service
06:30	08:30	(Start) Casing Operations... Held safety meeting with casing crew & Rig crew & Rig up casers.
08:30	19:00	Pick up 2 jt shoe track and Run 9 5/8" 40 # BTC connection, F/ surface t/ 8531 Ran a total of 190 full jts of casing, Centrlizers 1 on the first 3 jts and 1 on every third jt for a total of 8, Fill Pipe Every 2000' Land Casing With 250 K
19:00	20:00	HPJSM w/ Casing Crew And Rig Crew and Rig Down Casing Crews.
20:00	23:30	(Start cementing oper) HPJSM w/ cement and rig crew Off Load Cement into cement silos & R/U cement head & R/U Halliburton equipment, break circulation and circ b/u to remove gas from wellbore (max 150 units of gas). Verify loading of plug
23:30	00:00	Pressure test Halliburton equipment to 5000 psi. Good Test. Start pumping.

Report Start Date	Report End Date	24hr Activity Summary
10/13/2014	10/14/2014	Cement, R/D Cementers, L/D Landing Joint, Install & test Pack Off, N/D Bop, Install Night Cap, Prep to skid & Skid Rig.

Start Time	End Time	Comment
00:00	03:00	PJSM w/ Halliburton, test lines w/H2O to 5000 psi, pump 20 bbl diesel, tuned spacer 40 bbl/11.5 ppg, 1st lead cement 35 bbl/12.5 ppg, 2nd lead cement 319 bbl/12.5 ppg. pump tail cement 83 bbl/14ppg, drop plug, displacemnt 636 bbl/12.5 ppg OBM, plug down @ 3:00, 20 bbl diesel and 5 bbl tuned spacer back to surface, 2.5 bbls back and float held. Flush BOP, choke and gas buster,
03:00	04:30	RD Halliburton cementers
04:30	07:00	(Start) NU Well Head... PJSM w/ FMC, back out landing jt, P/U joint of 5" DP, install pack-off, presure test to 5000 psi 15 min (verified by NFX company rep).

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Summary Rig Activity

Well Name: Ranch 15-10-3-3-2W-UW

Start Time	End Time	Comment
07:00	12:00	Nipple Down Bop Stack,Flow Line, P/U Bop Stack With BOP Handler,Install Fmc Night cap, and Prep Rig to Skid to the Ute Tribal 14-10-3-3-2W-MW
12:00	13:00	(Start) HPJSM w/ Rig Crews, Fuction Test Walking System for rig skid and Skid Rig.

Report Start Date	Report End Date	24hr Activity Summary
12/2/2014	12/3/2014	Walk rig to the Ranch 15-10-3-3-2W-UW. NU and test BOPE.

Start Time	End Time	Comment
20:00	22:00	(Start) HPJSM w/ Rig Crews, Fuction Test Walking System for rig skid and Skid Rig from Ute Tribal 14-10-3-3-2W- MW to the Ranch 15-10-3-3-2W-UW
22:00	00:00	(Start) HPJSM & Nipple Up Bop & prepare to test Bop's As Follows, Set Stack on Well Head & Spacer Spool, Torque up Bop, Hook Up Koomey Lines and Function Test Bop's

Report Start Date	Report End Date	24hr Activity Summary
12/3/2014	12/4/2014	Nipple Up Bop and test BOP,Install Wear Bushing, Cut & Slip Drill Line,

Start Time	End Time	Comment
00:00	03:00	Torque up Bop, Hook Up Koomey Lines and Function Test Bop's
03:00	11:30	(Start) Test BOPE/Csg... Rig Up testers & Test BOP's , test TIW, dart valve, Lower Kelly cock valve, and IBOP to 250 psi low 5000 psi high. man IBOP, dart, outside manifold vales, downstream manifold valves to 250 psi 5 min low - 5000 psi 10 min high, test annular 250 psi low 3500 psi high, test upper and lower pipe rams, 250 psi 5 min low - 5000 psi 10 min high, mudline - 250 psi 5 min low 5000 psi 10 min high, Fill csg and test 1500 psi for 30 mins, R/D Testers, Rig Up flow line.
11:30	12:30	HPJSM w/ testers & R/D Testers, Install Wear Bushing
12:30	14:30	Cut & Slip 130' of Drilling Line & Change Out Saver Sub
14:30	16:30	(Start) P/U & M/U Dir Tools
16:30	18:30	Program Dir Tools
18:30	19:00	Install rotating head rubber.
19:00	19:30	PU 1 jt HWDP, Drill n Ream tool, float sub. Surface test directional tools. Tools would not test.
19:30	21:30	Pulser not working. Troubleshoot directional tools. Shallow test again - tools tested good.
21:30	00:00	TIH f/ surface to 4733'.

Report Start Date	Report End Date	24hr Activity Summary
12/4/2014	12/5/2014	TIH f/ 4700' To 8430',Pressure test Casing to 2500 psi, Drill Shoe Track f/ 8430 to 8542, , Drill 8.75" hole f/ 8542' to 8552, Conduct Fit Test, Drill 8.75" hole f/ 8552' to 8750',Trouble Shoot RSS, Circ & Build a Trip Slug, TOOH for RSS failure, c/o RSS, Program tools, TIH to bottom.

Start Time	End Time	Comment
00:00	02:30	TIH f/ 4700 to 8430'. Fill pipe every 2000'
02:30	03:00	(Start) Pressure test 9.625" casing with rig pumps @ 2500 psi for 15 mins
03:00	05:00	(Start) Drill shoe track/FIT... Tag float collar @ 8431', drill shoe track, tag float shoe @ 8518'. Drilling shoe track per WFT procedures to protect RSS tools.

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Summary Rig Activity

Well Name: Ranch 15-10-3-3-2W-UW

Start Time	End Time	Comment
05:00	05:30	Drill 10' of new formation for FIT. Drill 8.75" Hole f/ 8542' To 8552' (2 Pumps on the hole at 80 a piece, 457 GPM) Present Mwt 13.2 ppg
05:30	06:30	Drill 10' of new formation for FIT. Drill 8.75" Hole f/ 8542' To 8552' (2 Pumps on the hole at 80 a piece, 457 GPM) Present Mwt 13.2 ppg
06:30	08:00	Drill 8.75" Curve Section f/ 8552' To 8570' (2 Pumps on the hole at 80 a piece, 457 GPM) Present Mwt 13.2 ppg
08:00	09:30	(Start) Unplanned.....Trouble Shoot Dir Tools and found that the RSS was not Syncing any Data< Build Trip Slug,
09:30	14:30	Check For Flow (Well Is Static) Pump Trip Slug & Trip Out of the hole f/ 8570' to Surface, Monitor Well On Trip Tank (Well Is taking Proper Fill)
14:30	17:00	Change out Rotary Steerable Tools
17:00	19:00	Program Rotary Steerable tools
19:00	19:30	Install rotating head.
19:30	20:00	PU 1 jt HWDP, Drill n Ream tool, float sub. Surface test directional tools. Test good.
20:00	00:00	TIH f/ surface to 8570'. Fill pipe every 3000'.

Report Start Date	Report End Date	24hr Activity Summary
12/5/2014	12/6/2014	Drill 8.75" Curve f/ 8570' to 9123',Rig Service,Drill 8.75" Curve f/ 9123' to 9248'.

Start Time	End Time	Comment
00:00	15:30	(Start) Drill 8.75" Curve Section f/ 8570' To 9123' (2 Pumps on the hole at 80 a piece, 457 GPM) Present Mwt 14.3 ppg
15:30	16:00	Rig Service
16:00	19:30	Drill 8.75" Curve Section f/ 9123' To 9247' (2 Pumps on the hole at 80 a piece, 457 GPM) Present Mwt 14.5 ppg
19:30	20:00	Survey & Downlink
20:00	00:00	Drill 8.75" Curve Section f/ 9247' To 9367' (2 Pumps on the hole at 85 a piece, 494 GPM) Present Mwt 14.5 ppg

Report Start Date	Report End Date	24hr Activity Summary
12/6/2014	12/7/2014	Drill Curve f/ 9367' to 9684'. Rig Service, Drill Lateral f/ 9684' to 10175'.

Start Time	End Time	Comment
00:00	10:30	Drill 8.75" Curve Section f/ 9367' To 9684' Land Curve @ 9670' (2 Pumps on the hole at 85 a piece, 494 GPM) Present Mwt 14.5 ppg
10:30	11:00	Routine Rig Service
11:00	00:00	Drill 8.75" Lateral with RSS f/ 9684' to 10175', (2 Pumps on the hole at 85 a piece, 495 GPM) Present Mwt 14.7 ppg.

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Summary Rig Activity

Well Name: Ranch 15-10-3-3-2W-UW

Daily Operations

Report Start Date	Report End Date	24hr Activity Summary
12/7/2014	12/8/2014	Drill f/ 10175' to 10246', Rig Service, Drill f/ 10246' to 10622', Rig Service, Drill f/ 10622' to 10909'.

Start Time	End Time	Comment
00:00	02:00	Drill 8.75" Lateral with RSS f/ 10175' to 10246', (2 Pumps on the hole at 85 a piece, 495 GPM) Present Mwt 14.7 ppg.
02:00	02:30	Rig Service
02:30	16:30	Drill 8.75" Lateral with RSS f/ 10246' to 10622', (2 Pumps on the hole at 95 a piece, 554 GPM) Present Mwt 15.0 ppg.
16:30	17:00	Rig Service
17:00	00:00	Drill 8.75" Lateral with RSS f/ 10622' to 10909', (2 Pumps on the hole at 95 a piece, 554 GPM) Present Mwt 15.0 ppg.

Report Start Date	Report End Date	24hr Activity Summary
12/8/2014	12/9/2014	Drill f/ 10909' to 10996', Rig Service, Drill f/ 10996' to 11066', Change swab on pump #1, Drill f/ 11066' to 11838',

Start Time	End Time	Comment
00:00	02:30	Drill 8.75" Lateral with RSS f/ 10909' to 10996', (2 Pumps on the hole at 95 a piece, 554 GPM) Present Mwt 15.0 ppg.
02:30	03:00	Rig Service
03:00	04:30	Drill 8.75" Lateral with RSS f/ 10996' to 11066', (2 Pumps on the hole at 95 a piece, 554 GPM) Present Mwt 15.0 ppg.
04:30	05:00	Change swab on pump #1.
05:00	00:00	Drill 8.75" Lateral with RSS f/ 11066' to 11838', (2 Pumps on the hole at 95 a piece, 554 GPM) Present Mwt 15.0 ppg.

Report Start Date	Report End Date	24hr Activity Summary
12/9/2014	12/10/2014	Rig Service, Drill f/ 11838' to 12494'.Rig Service, Drill Lateral f/ 12494' to 12783'.

Start Time	End Time	Comment
00:00	00:30	Rig Service
00:30	16:30	Drill 8.75" Lateral with RSS f/ 11838' to 12494', (2 Pumps on the hole at 95 a piece, 554 GPM) Present Mwt 15.0 ppg.
16:30	17:00	Rig Service
17:00	00:00	Drill 8.75" Lateral with RSS f/ 12494' to 12783', (2 Pumps on the hole at 95 a piece, 554 GPM) Present Mwt 15.0 ppg.

Report Start Date	Report End Date	24hr Activity Summary
12/10/2014	12/11/2014	Drill f/ 12783' to 12868', Rig Service, Drill f/ 12868' to 13056'. Pump cleanup cycle, Drill f/ 13056' to 13243', Rig Service, Drill f/ 13243' to 13310', RSS failure, Mud up to TOOH for RSS.

Start Time	End Time	Comment
00:00	02:00	Drill 8.75" Lateral with RSS f/ 12783' to 12868', (2 Pumps on the hole at 95 a piece, 554 GPM) Present Mwt 15.0 ppg. Pump 30 ppb LCM Sweeps to help control Losses.

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Summary Rig Activity

Well Name: Ranch 15-10-3-3-2W-UW

Start Time	End Time	Comment
02:00	02:30	Rig Service
02:30	07:00	Drill 8.75" Lateral with RSS f/ 12868' to 13056', (2 Pumps on the hole at 90 a piece, 525 GPM) Present Mwt 15.0 ppg. Pump 30 ppb LCM Sweeps to help control Losses.
07:00	09:00	Circulate 2 BU to clean hole and lower ECDs.
09:00	17:00	Drill 8.75" Lateral with RSS f/ 13056' to 13243', (2 Pumps on the hole at 90 a piece, 525 GPM) Present Mwt 15.0 ppg. Pump 30 ppb LCM Sweeps to help control Losses.
17:00	17:30	Rig Service
17:30	21:00	Drill 8.75" Lateral with RSS f/ 13243' to 13310', (2 Pumps on the hole at 90 a piece, 525 GPM) Present Mwt 15.0 ppg. Pump 30 ppb LCM Sweeps to help control Losses. While drilling at 13310', saw pressure spike. Gained 700 psi of off-bottom pressure and lost detection from LWD tools.
21:00	00:00	(Stop) Unplanned TOOH for RSS failure. Circulate 2 BU and raise MW to 15.2 ppg. Build 17# trip slug.

Report Start Date	Report End Date	24hr Activity Summary
12/11/2014	12/12/2014	Raise mud wt to 15.2 ppg,TOOH f/ 13310' to Surf. , Prog dirc tools, Trouble shoot dirc tools, Prog dirc tools, TIH to 13000', Wash to bottom acquiring resistivity data.

Start Time	End Time	Comment
00:00	00:30	Circulate and raise MW to 15.2 ppg. Build 17# trip slug.
00:30	06:30	Flow check, no flow. Pump trip slug. TOOH f/ 13310' to casing shoe. Flow check. No flow. TOOH f/ 8515' to BHA. Monitoring well on trip tank. Hole taking proper fill.
06:30	07:00	Pull rotating rubber.
07:00	09:00	Stand back BHA. LD RSS & HEL tool & P/U new BHA.
09:00	11:00	Program directional tools.
11:00	11:30	Rig service.
11:30	13:00	Trouble shoot LWD Due to lost communication.
13:00	13:30	Program directional tools.
13:30	14:30	Install rotating head.
14:30	21:30	TIH W/ new BHA F/ Surf to 13000' filling pipe every 3000', Surface test dirc tools test okay.
21:30	00:00	Begin washing down f/ 13000' to acquire 300' of resistivity data. Circulating well on buster. Saw 6-8 ft. flare w/ 2665u max trip gas. Back pumps off to 350 gpm and pump 30 ppb sweeps to control losses. Diluting MW back f/ 15.3 ppg to 15.0 ppg.

Report Start Date	Report End Date	24hr Activity Summary
12/12/2014	12/13/2014	Wash down 300' for resistivity data, Drill F/ 13310' to 13372', Survey & Downlink, Drill f/ 13372' to 13450', Downlink, Drill F/ 13450' to 13653', Rig serv Drill F/ 13653' to 14122', Survey & Downlink, Drill f/ 14122' to 14273'.

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Summary Rig Activity

Well Name: Ranch 15-10-3-3-2W-UW

Start Time	End Time	Comment
00:00	01:30	Washing down f/ 13184' to 13310' acquire 300' of resistivity data. Back pumps off to 450 gpm and pump 30 ppb sweeps to control losses. MW 15.0 ppg.
01:30	03:00	Drill 8.75" Lateral with RSS f/ 13310' to 13372', (2 Pumps on the hole at 80 a piece, 450 GPM) Present Mwt 15.0 ppg. Pump 30 ppb LCM Sweeps to help control Losses & 4 sx of Baracarb and 1 sx steal seal per hr.
03:00	03:30	Survey & Downlink
03:30	06:00	Drill 8.75" Lateral with RSS f/ 13372' to 13450', (2 Pumps on the hole at 80 a piece, 450 GPM) Present Mwt 15.0 ppg. Pump 30 ppb LCM Sweeps to help control Losses & 4 sx of Baracarb and 1 sx steal seal per hr.
06:00	07:00	Downlink.
07:00	11:30	Drill 8.75" Lateral with RSS f/ 13450' to 13653', (2 Pumps on the hole at 80 a piece, 450 GPM) Present Mwt 15.0 ppg. Pump 30 ppb LCM Sweeps to help control Losses & 4 sx of Baracarb and 1 sx steal seal per hr.
11:30	12:00	Rig service.
12:00	20:30	Drill 8.75" Lateral with RSS f/ 13653' to 14122', (2 Pumps on the hole at 80 apiece, 450 GPM) Present Mwt 15.0 ppg. Pump 30 ppb LCM Sweeps to help control Losses & 4 sx of Baracarb and 1 sx steal seal per hr.
20:30	21:00	Survey & Downlink
21:00	00:00	Drill 8.75" Lateral with RSS f/ 14122' to 14273', (2 Pumps on the hole at 80 apiece, 450 GPM) Present Mwt 15.0 ppg. Pump 30 ppb LCM Sweeps to help control Losses & 4 sx of Baracarb and 1 sx steal seal per hr.

Report Start Date	Report End Date	24hr Activity Summary
12/13/2014	12/14/2014	Drill F/ 14273' to 14402', Rig serv, Drill F/ 14402' to 15058', Rig serv, Drill F/ 15058' to 15419',

Start Time	End Time	Comment
00:00	02:30	Drill 8.75" Lateral with RSS f/ 14273' to 14402', (2 Pumps on the hole at 80 apiece, 450 GPM) Present Mwt 15.0 ppg. Pump 30 ppb LCM Sweeps to help control Losses & 4 sx of Baracarb and 1 sx steal seal per hr.
02:30	03:00	Rig service.
03:00	16:30	Drill 8.75" Lateral with RSS f/ 14402' to 15058', (2 Pumps on the hole at 80 & 70 SPM, 438 GPM) Present Mwt 15.0 ppg. Bringing mud wt to 14.9 ppg for losses, Pump 30 ppb LCM Sweeps to help control Losses & 4 sx of Baracarb and 1 sx steal seal per hr.
16:30	17:00	Rig service.
17:00	00:00	Drill 8.75" Lateral with RSS f/ 15058' to 15419', (2 Pumps on the hole at 80 & 75 SPM, 453 GPM) Present Mwt 15.0 ppg. Bringing mud wt to 14.9 ppg for losses, Pump 30 ppb LCM Sweeps to help control Losses & 4 sx of Baracarb and 1 sx steal seal per hr.

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Summary Rig Activity

Well Name: Ranch 15-10-3-3-2W-UW

Daily Operations

Report Start Date	Report End Date	24hr Activity Summary
12/14/2014	12/15/2014	Drill f/ 15419' to 15526', Rig Service, Drill f/ 15526' to 15653'. Fix stroke counter on pump #2, Drill f/ 15653' to 16466', Change swivel packing, Drill f/ 16466' to 16556', fix stroke counter on pump #2.

Start Time	End Time	Comment
00:00	02:00	Drill 8.75" Lateral with RSS f/ 15419' to 15526', (2 Pumps on the hole at 80 & 75 SPM, 453 GPM) Present Mwt 14.9 ppg. Pump 30 ppb LCM Sweeps to help control Losses & 4 sx of Baracarb and 1 sx steal seal per hr.
02:00	02:30	Rig Service
02:30	05:30	Drill 8.75" Lateral with RSS f/ 15526' to 15653', (2 Pumps on the hole at 80 & 75 SPM, 453 GPM) Present Mwt 14.9 ppg. Pump 30 ppb LCM Sweeps to help control Losses & 4 sx of Baracarb and 1 sx steal seal per hr.
05:30	06:00	Fix stroke counter on pump #2.
06:00	20:00	Drill 8.75" Lateral with RSS f/ 15653' to 16466', (2 Pumps on the hole at 80 & 75 SPM, 453 GPM) Present Mwt 14.9 ppg. Pump 30 ppb LCM Sweeps to help control Losses & 4 sx of Baracarb and 1 sx steal seal per hr.
20:00	21:00	Change swivel packing.
21:00	23:00	Drill 8.75" Lateral with RSS f/ 16466' to 16556', (2 Pumps on the hole at 80 & 75 SPM, 453 GPM) Present Mwt 14.9 ppg. Pump 30 ppb LCM Sweeps to help control Losses & 4 sx of Baracarb and 1 sx steal seal per hr.
23:00	00:00	Fix stroke counter on pump #2.

Report Start Date	Report End Date	24hr Activity Summary
12/15/2014	12/16/2014	Work on STK counter, Drill F/ 15556' to 16860', Downlink, Drill F/ 16860' to 17008', Trouble Shoot rod wash, Drill F/ 17008' to 17277', Downlink, Drill F/ 17277' to 17305', Rig serv, Drill F/ 17305' to 17704',

Start Time	End Time	Comment
00:00	00:30	Fix stroke counter on pump #2.
00:30	06:30	Drill 8.75" Lateral with RSS f/ 16556' to 16860', (2 Pumps on the hole at 80 & 75 SPM, 453 GPM) Present Mwt 14.9 ppg. Pump 30 ppb LCM Sweeps to help control Losses & 4 sx of Baracarb and 1 sx steal seal per hr.
06:30	07:00	Downlink.
07:00	09:00	Drill 8.75" Lateral with RSS f/ 16860' to 17008', (2 Pumps on the hole at 80 & 75 SPM, 453 GPM) Present Mwt 14.9 ppg. Pump 30 ppb LCM Sweeps to help control Losses & 4 sx of Baracarb and 1 sx steal seal per hr.
09:00	09:30	(Stop Unplanned) Trouble shoot rod wash pump.
09:30	15:00	(Start) Drill 8.75" Lateral with RSS f/ 17008' to 17277', (2 Pumps on the hole at 80 & 75 SPM, 453 GPM) Present Mwt 14.9 ppg. Pump 30 ppb LCM Sweeps to help control Losses & 4 sx of Baracarb and 1 sx steal seal per hr.

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Summary Rig Activity

Well Name: Ranch 15-10-3-3-2W-UW

Start Time	End Time	Comment
15:00	15:30	Downlink.
15:30	16:00	Drill 8.75" Lateral with RSS f/ 17277' to 17305', (2 Pumps on the hole at 80 & 75 SPM, 453 GPM) Present Mwt 14.9 ppg. Pump 30 ppb LCM Sweeps to help control Losses & 4 sx of Baracarb and 1 sx steal seal per hr.
16:00	16:30	Rig service.
16:30	00:00	Drill 8.75" Lateral with RSS f/ 17305' to 17704', (2 Pumps on the hole at 80 & 75 SPM, 453 GPM) Present Mwt 14.9 ppg. Pump 30 ppb LCM Sweeps to help control Losses & 4 sx of Baracarb and 1 sx steal seal per hr.

Report Start Date	Report End Date	24hr Activity Summary
12/16/2014	12/17/2014	Drill F/ 17704' to 18889',

Start Time	End Time	Comment
00:00	00:00	Drill 8.75" Lateral with RSS f/ 17704' to 18889', (2 Pumps on the hole at 80 & 75 SPM, 453 GPM) Present Mwt 14.9 ppg. Pump 30 ppb LCM Sweeps to help control Losses & 4 sx of Baracarb and 1 sx steal seal per hr.

Report Start Date	Report End Date	24hr Activity Summary
12/17/2014	12/18/2014	Rig serv, Drill F/ 18889' to 19006', Trouble shoot # 2 pump, Drill F/ 19006' to 19045', Survey, Clean up cycle, POOH to shoe to LDDP

Start Time	End Time	Comment
00:00	00:30	Rig service.
00:30	03:00	Drill 8.75" Lateral with RSS f/ 18889' to 19006', (2 Pumps on the hole at 80 & 75 SPM, 453 GPM) Present Mwt 14.9 ppg. Pump 30 ppb LCM Sweeps to help control Losses & 4 sx of Baracarb and 1 sx steal seal per hr.
03:00	03:30	(Stop unplanned) Trouble shoot # 2 pump clean out suction screen.
03:30	04:00	(Start) Drill 8.75" Lateral with RSS f/ 19006' to 19045', (2 Pumps on the hole at 80 & 75 SPM, 453 GPM) Present Mwt 14.9 ppg. Pump 30 ppb LCM Sweeps to help control Losses & 4 sx of Baracarb and 1 sx steal seal per hr.
04:00	04:30	Take survey @ TD 19045 MD @ 04:00 on 12/17/2014. L/D single to work pipe.
04:30	20:00	(Start) Clean up cycle (Both pumps @ 77 Stks a piece 453 gpm, Topdrive RPM 140)
20:00	21:30	Flow check, wait on ballooning formation, well static
21:30	00:00	(Start) POOH to casing shoe to LDDP, attempt to pull on elevators, backream 7 stands f/19045' to 18398', trip on elevators f/18398' to 17658'

Report Start Date	Report End Date	24hr Activity Summary
12/18/2014	12/19/2014	POOH on elevators f/17658' to 13432', ck flow, pump slug, POOH f/13432' to 8470', LDDP F/ 8470' to BHA, LD BHA, clean floor, PU float sub and TIH

Start Time	End Time	Comment
00:00	04:00	POOH to casing shoe to LDDP, trip out on elevators f/17658' to 13432'
04:00	04:30	Check flow, pump drying slug
04:30	08:00	POOH to casing shoe to LDDP, trip out on elevators f/13432' to 8470'.

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Summary Rig Activity

Well Name: Ranch 15-10-3-3-2W-UW

Start Time	End Time	Comment
08:00	18:30	(Start) LDDP F/ 8470' to 2000', Some pipe tight breaking out with rig tongs.
18:30	20:00	(Start) Lay down directional BHA
20:00	00:00	(Start) Clean floor, PU float sub andTripping in hole @ 3660'

Report Start Date	Report End Date	24hr Activity Summary
12/19/2014	12/20/2014	Trip in to casing shoe, slip and cut DL, LDDP, TIH, LDDP, Pull rotaing rubber, Pull wear bushing, PJSM, RU casing crew, run 5 1/2" casing to 2011'

Start Time	End Time	Comment
00:00	03:00	Trip in hole F/ 3660' to casing shoe
03:00	04:30	(Start) slip and cut DL
04:30	12:00	(Start) Pump dry job & LDDP F/ 8446' to 180',
12:00	13:30	Trip in hole with remaining 2500' of DP in derrick.
13:30	17:00	LDDP F/ 2700' To Surface. Some pipe tight breaking out with rig tongs pipe broke at about 43K
17:00	17:30	Pull rotaing head rubber
17:30	18:00	Pull wear bushing.
18:00	20:30	(Start) PJSM w/Franks, Halliburton, thread rep and rig crew, RU casing crew, CRT and torque turn
20:30	00:00	(Start) Make Up Float shoe and Float And test Float equipment, Run 5.5", 20# P-110 XP BTC casing. Make casing up @ 15 RPM'S Per Deep Well thread rep.Run casing F/ surface to 2011', 1- Float shoe, 1 jt csg, 1 Float collar, 1 jt csg, 1 Landing collar, 2 jts csg, 1 RSI, 1 jt csg. RSI, 43 full jts, installing Schlumberger receptical +/- every 200', solid body centralizer on evey joint for 253 & On every 3rd joint for 4, Filling pipe every 2000'.

Report Start Date	Report End Date	24hr Activity Summary
12/20/2014	12/21/2014	Run 5 1/2" casing from 2011' 8494', Circ Btms up @ shoe, Run 5 1/2" casing from 8494' to land at 19027'

Start Time	End Time	Comment
00:00	08:00	Cont to Run Casing As Follows, Run 5.5", 20# P-110 XP BTC casing. Make casing up @ 15 RPM'S Per Deep Well thread rep.Run casing F/ 2011' to 8494', 1- Float shoe, 1 jt csg, 1 Float collar, 1 jt csg, 1 Landing collar, 2 jts csg, 1 RSI, 1 jt csg. RSI, 68 full jts csg, 1 marker jt, 133 full jts,1 marker jt, 208 full joints, installing Schlumberger receptical +/- every 200' f/ 18552' to 9820' (36 total) Filling pipe every 2000'.
08:00	10:00	Circulate BU @ 8494' @ 5.0 bbm, Max Bottoms up gas 239 Units, Pull Rotating Rubber
10:00	22:30	Cont to Run Casing As Follows, Run 5.5", 20# P-110 XP BTC casing. Make casing up @ 15 RPM'S Per Deep Well thread rep.Run casing F/ 8484' to 19027', 1- Float shoe, 1 jt csg, 1 Float collar, 1 jt csg, 1 Landing collar, 2 jts csg, 1 RSI, 1 jt csg. RSI, 68 full jts csg, 1 marker jt, 128 full jts,1 marker jt, 213 full joints, total of 457 full jts, installing Schlumberger receptical +/- every 200' f/ 18552' to 9820' (36 total) Filling pipe every 2000'. 200', solid body centralizer on evey joint for 253 & On every 3rd joint for 4, Filling pipe every 2000'.
22:30	23:00	Install landing assembly and land at 19027'
23:00	00:00	Rig down CRT tool and rig up rotating cementing head and Halliburton

Report Start Date	Report End Date	24hr Activity Summary
12/21/2014	12/22/2014	RU cement head, rotate, circ BU, RU Halliburton, start cement job, did not land plug, shut in, monitor pressure with Halliburton pump truck

NEWFIELD

Summary Rig Activity

Well Name: Ranch 15-10-3-3-2W-UW

Start Time	End Time	Comment
00:00	04:30	Rig up rotating cementing head, rotate 10 RPM, circulate BU @ 230 GPM and RU Halliburton
04:30	12:00	(Start) Cementing Operations... Cement 5.5'' Casing As Follows. Pressure test lines to 9500 pi, drop bottom plug, Pump 40 bbls of tuned spacer III @ 15.4 ppg @ 4 BPM, mix and pump 350 bbls of Tergo Vis (1390 sks) 15.4 ppg, @ 5 bpm, mix and pump 602 bbls of primary cement (2195 sks) 15.7 ppg 1.54 yield, 6.34 gal / sk, @ 5 BPM Shut down drop plug pump 421.5 bbls of KCL+Biocide displacement final pump rate 3 BPM, At 350 bbls displacement away psi @ 5840 @ 360 bbls away psi at 5590 @ 370 away psi @ 5910 @ 380 away psi at 5460 and psi built to 5600 at 1.5 bbls over displacement final circulating pressure 5600 psi, did not bump plug, 24 bbl flow back, floats did not hold, Pumped back calculated displacement of 420 bbls @ 5950 psi Full Returns During Cement Job & Got Back 40 bbls of Tuned Spacer, During cmt job rotated casing @ 10 RPMS & 20k Torque had Interment Rotation During Cement Displacement.(Rotation Stop @ 552 bbls of Cement pumped and Interment rotation started again @ 270 bbls Away on displacement rotation stopped) Land casing with 70K string wt
12:00	00:00	(Stop unplanned) Pressure up to 5600 psi (FCP) Hold psi on Halliburton pump truck & Monitor Psi, 13:00 -15:00 7600 psi, bleed 2.5 bbl to 5600 psi 15:00- 15:10 6500 psi bleed 1.5 bbl to 5600 psi 15:10- 15:15 5900 psi bleed 1.5 bbl to 5600 psi 15:15- 15:45 5900 psi bleed .5 bbl to 5560 psi 15:45- 16:15 5909 psi bleed .5 bbl to 5550 psi 15:15- 17:15 5900 psi bleed .5 bbl to 5500 psi 17:15- 00:00 5500 psi holding. Started cleaning mud pits @ 15:00 on 12/21/2014.

Report Start Date	Report End Date	24hr Activity Summary
12/22/2014	12/23/2014	Release pressure from csg, RD tools and landig jt, install pack off and test, install BPV, Nipple down BOPS, Nipple up night cap, Clean mud pits , prep rig for rig down.

Start Time	End Time	Comment
00:00	00:30	Release pressure from casing, got back 7 bbl, flow stopped, Cleaning mud pits
00:30	02:00	RD Halliburton, Franks cementing head and landig jt, Cleaning mud pits
02:00	08:00	Install and test pack off and BPV, Test pack off to 5000 psi held for 15 min test good, Nipple up night cap & test to 10000' psi test good, Cleaning mud pits.
08:00	16:00	Prep rig for rig move & R/D Floor bells elevators, mud lines steam lines, Lay down flow line, Mud lines lay down ST-80, R/D catwalk, Pumps, Clean mud & Clean Harbor pits. Hauled 8 loads Release rig @ 16:00 on 12/22/2014. 2 Bed trucks, 2 Haul trucks, 2 Forklifts, 2 Swampers, 1 Safety, 1 Truck pusher, Trucks showed up @ 07:00 12/22/2014, 1 Crane, 3 Riggers, Crane on location @ 09:00 12/22/2014.